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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

CULBERT L. OLSON, Governor

FRANK W. CLARK, Director of Public Works

EDWARD HYATT, State Engineer

BULLETIN NO. 21-I

REPORT

ON

I R R I G A T I O N D I S T R I C T S

IN

CALIFORNIA

FOR THE YEAR 1937

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ORGANIZATION

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FOREWORD

Following the publication of Bulletin No. 21 in 1929, which contains a complete report on all irrigation districts in the State, the Division of Water Resources has issued a series of annual supplements, Bulletins No. 21-A to 21-H inclusive, to keep the historical and statistical data up to date. The present Bulletin No. 21-I is the tenth publication of this series and presents the information collected for the year 1937.

The material has been compiled from reports submitted by the individual districts and from records on file in the office of the State Engineer. The figures presented have been carefully checked and are believed to be substantially correct, although there may be minor inaccuracies in certain cases due to the lack of sufficient data.

The Bulletins are issued for the purpose of preserving in convenient form the yearly records of this large and important group of organizations, and to supply general information regarding their operations for which there is a considerable public demand.

CHAPTER I

INTRODUCTION

The Irrigation Season of 1937

In spite of early freezes and a cold wet spring, the remainder of the 1937 season was very favorable for the growing, maturing and harvesting of California crops. The outstanding weather feature of the year was the persistent and severe low temperature in January which was the coldest month of record throughout the State.

The year may be classed as a wet one as the total precipitation was 122 per cent and the total snowfall 152 per cent of the 41-year average. In a few desert regions the rainfall was below normal, but elsewhere it was well above normal with the greatest excesses falling in the northern third of the State and over the western slopes of the southern Sierras. More than 100 inches of rain were recorded in portions of Del Norte, Humboldt, Butte and Sierra counties, exceeding the greatest annual amounts for all years since 1915. The heavy snow pack in the mountains insured abundant water for summer irrigation and soil moisture conditions for crop growth were generally favorable until quite late in the fall.

Farm Operations

Statistics gathered by the California Crop Reporting Service show that during the 1937 season the farmers produced the largest total

tonnage of field crops on record. The acreage planted was also the largest since 1920.

Early in the year the cold weather and persistent rains delayed crop growth and hindered farm operations over a large part of the State. This was followed, however, by almost ideal conditions for crop development. Temperatures were mild throughout all of the late spring, summer, and fall months. Crop growth was encouraged and excellent yields were generally obtained at time of harvest.

The cotton crop produced in 1937 was the largest in the history of the State. Final returns show that 620,000 acres were harvested, yielding the equivalent of 739,000 bales. This is an average yield of 570 pounds per acre and is only slightly under the record average yield made in 1936.

Beans were also an outstanding crop. Over five million bags were produced from 386,000 acres. The area planted to this crop has been steadily increasing during the past five years.

Truck growers felt the effects of the severe January frosts and production was reduced to a considerable extent in all sections. Hampered by cold weather the spring crops produced short yields, but as summer came on conditions improved and the market demand was generally good. During the fall months most of the plantings made excellent growth and produced heavy yields. Final returns for 1937 were even slightly better than those for 1936. Lettuce continued to be the most valuable truck crop in the State with tomatoes, asparagus and cantaloupes

ranking next in the order named.

Fruit and nut crops recorded substantial gains with almonds, apricots, dried figs, grapes, and walnuts setting an all-time high mark of total production. The grape industry in particular experienced the most profitable season in ten years. Returns to producers were 45 per cent above those of the previous year due to the unusual combination of record production and high market prices.

Citrus crops and avocados were severely damaged by the January freeze. A large part of the fruit on the trees was destroyed. Losses were further increased by the extra costs of fuel for operation of orchard heaters. A remarkable feature of the situation was the relatively small amount of serious tree damage caused by the freeze. Some lemon groves suffered permanent injury, but the industry as a whole made rapid recovery. The year closed with an estimated total gross return only 3 per cent less than the previous season. This showing was materially facilitated by the development and use of the X-ray method of sorting in the handling of frozen fruit.

The livestock industry gained a more prominent place among the major enterprises of the State in 1937. Not only was the income from this source greater than for the preceding year, but it accounted for a larger proportion of the total agricultural income of the State than it did during 1936. Most of the increase in revenue from livestock sources was due to improvement in average prices, but greater volume of marketing in some lines helped toward the total gains that

were made.

Pasturage conditions varied widely in different sections. In the Southern half of the State seasonal rainfall was above normal and pasturage was generally abundant through most of the year. The northern districts experienced extremely adverse conditions early in the season with low winter temperatures and a poor growth of vegetation. Farmers incurred heavy feed bills in caring for stock. Conditions were greatly changed at the beginning of the new season in fall of 1937. Early rainfall in the northern districts brought out new feed very rapidly. Maintenance costs were greatly reduced and the pasturage outlook was one of the most favorable in many years.

Irrigation Districts Association

This mutual association was organized about 1910 for the purpose of furthering the interests of various types of districts engaged in the distribution of water for irrigation. It has a membership of almost one hundred such districts located in thirty-five counties of the State. Two meetings were held during the year at which delegates from the districts assembled for discussion of legislation and other matters affecting the welfare of their organizations.

The spring meeting of the Association was held at Sacramento, March 4 and 5, 1937. Consideration was largely given to more than one hundred bills directly or indirectly affecting the districts which had been introduced in the State Legislature, then in session. Certain

measures pending in Congress were also discussed and resolutions were passed endorsing the creation of a revolving fund to be loaned for refinancing districts in distress, and recommending a reduction of the interest charge from 4 to 3 per cent.

The second meeting held at Turlock June 11 and 12, 1937, was in the nature of a celebration of the fiftieth anniversary of the enactment of the California Irrigation District Act and also the fiftieth anniversary of the Turlock District which was organized June 6, 1887. About 300 representatives and guests from the several districts were in attendance to enjoy the elaborate entertainment provided including a tour of the Turlock District and a visit to the District's Don Pedro Dam and power house on the Tuolumne River.

Dissolution of Districts

Round Valley Irrigation District, located in Inyo and Mono Counties about ten miles northwest of Bishop was the only district to pass out of existence during the year. It was formally dissolved by order of the Superior Court in October, 1937. The district was formed in 1923 for the purpose of protecting the water rights of land owners against encroachment by the City of Los Angeles. Later, however, the City acquired about 75 percent of thelands within the district and sought at that time to have the organization dissolved. The effort was blocked in 1926 by the few remaining property owners and the district continued to function in a limited way for several years. A number of assessments were levied, but no bonds were issued. Practic-

ally all of the water rights were gradually acquired for the Los Angeles aqueduct, and no opposition was offered to dissolution of the district in 1937.

New Legislation

The California Irrigation District Act has been amended at almost every session of the legislature since the Act was passed. A number of important changes were adopted at the Session of 1937, particularly those relating to bonds, assessments and redemption of lands. The revised Act was published in full in Bulletin No. 18-E of the Division of Water Resources. This publication also contains the revised California Districts Securities Commission Act, the County Water District Act and the California Water District Act as well as certain general provisions of the constitution and separate laws which have a bearing on the operation of districts engaged in the distribution of water for irrigation.

The wide variation of conditions in different parts of the State has led to the passage of a number of other acts for the formation of districts to meet special problems which were considered to be sufficiently different from those usually existing to warrant new legislation. A brief outline of such acts is given in the foreword of Bulletin No. 18-E for comparison and further study by those contemplating new organizations.

CHAPTER II

ORGANIZATION OF NEW DISTRICTS

A history of the organization of irrigation districts in California is given in Bulletin No. 21, referred to in the foreword, which carries the movement down to 1929. The greatest activity began about 1915 and for the next ten years at least five new districts were organized annually, the peak coming in 1920 and 1921 with the formation of 18 and 14 districts respectively. Following 1929 and the agricultural depression very few districts were organized. There was only one each formed in the years 1930, 1931 and 1934. A description of each of these is given in the bulletins supplemental to Bulletin No. 21 which have been issued each year since 1929.

When work was started on the Central Valley Project, new interest was created in the organization of districts in the San Joaquin Valley that could be served with imported water from the Friant-Kern Canal. Most of these areas had been extensively developed through private enterprise by pumping from underground sources, but had suffered severe losses because of receding ground water levels. The first group of these districts completed their organization procedures in 1937 and short descriptions of the five formed in this year are given on the following pages to carry forward the historical information contained in Bulletin No. 21.

ORANGE COVE IRRIGATION DISTRICT

Location: Twenty miles due north from Visalia and thirty miles east of Fresno, lying partly in Fresno and partly in Tulare counties.

Date of Organization: February 16, 1937

Gross Area: 12,587 acres

Post Office: Orange Cove

Railroad Transportation: Branch line of Santa Fe Railroad

History

The Orange Cove area comprises the central portion of the old Foothill Irrigation District which was organized in 1920 and dissolved in 1933. Development by drilling wells for irrigation water was first extensively undertaken in this vicinity during the years 1912 to 1917 when ground water stood about 20 feet from the surface and the supply was thought to be inexhaustible. As the irrigated area expanded with increased pumping, the water levels continued to recede until by 1920 the serious situation of a water shortage had to be faced.

The Foothill District was organized in that year to participate in the Pine Flat storage project on Kings River with the hope of bringing in a gravity water supply. When this undertaking was delayed the District made further attempts to secure a supplemental supply by purchasing a tract of water bearing land on the lower Kings River Delta. A contract was made to pump water for use of the Murphy Slough Association in exchange for the privilege of diverting Kinge River water at

a higher elevation to the Foothill lands. At this stage an injunction suit was filed by other water users on Kings River to prevent the proposed operations and the Foothill District was finally forced to dissolve without having accomplished its purpose.

During the succeeding years the overdraft on ground water in the Orange Cove area continued, resulting in the failure of many wells and the abandonment of farms especially those on the higher lands. The more favorably located groves and vineyards were kept alive by the scant supply of water that could still be obtained by drilling additional wells and by pumping from greater depths.

Soils and Topography

The Orange Cove District occupies an area between the foothills and the Alta Canal that is gently rolling in the eastern portion, but slopes westerly to a level plain with a fall of about 15 or 20 feet to the mile. Elevations range from 400 to 500 feet above sea level. The soils consist principally of loams and sandy loams of the San Joaquin series with lesser areas of Madera and Hanford sandy loams along Sand Creek which is the only water course running through the district. The San Joaquin soils are free from alkali. They are usually underlaid with hardpan at depths of one or two feet, but the coverage is generally sufficient for successful farming. These soils as in all semi arid regions are low in organic matter and require fertilization for continued cropping.

Development

The town of Orange Cove with a population of about two hundred lies within the exterior boundaries, but is excluded from the district area. It contains several stores, a lumber yard, post office, bank and four packing plants which handle and ship the local products.

The farm population is estimated at 650 people. There are 249 separate holdings, the largest of which is 1200 acres but this consists of a number of separate tracts. The usual farm contains from 20 to 80 acres.

A survey of the district made in 1936 showed that 44 per cent of the land was planted to irrigated crops. Non irrigated grain covered 21 per cent while the reamining 35 per cent was vacant or abandoned land.

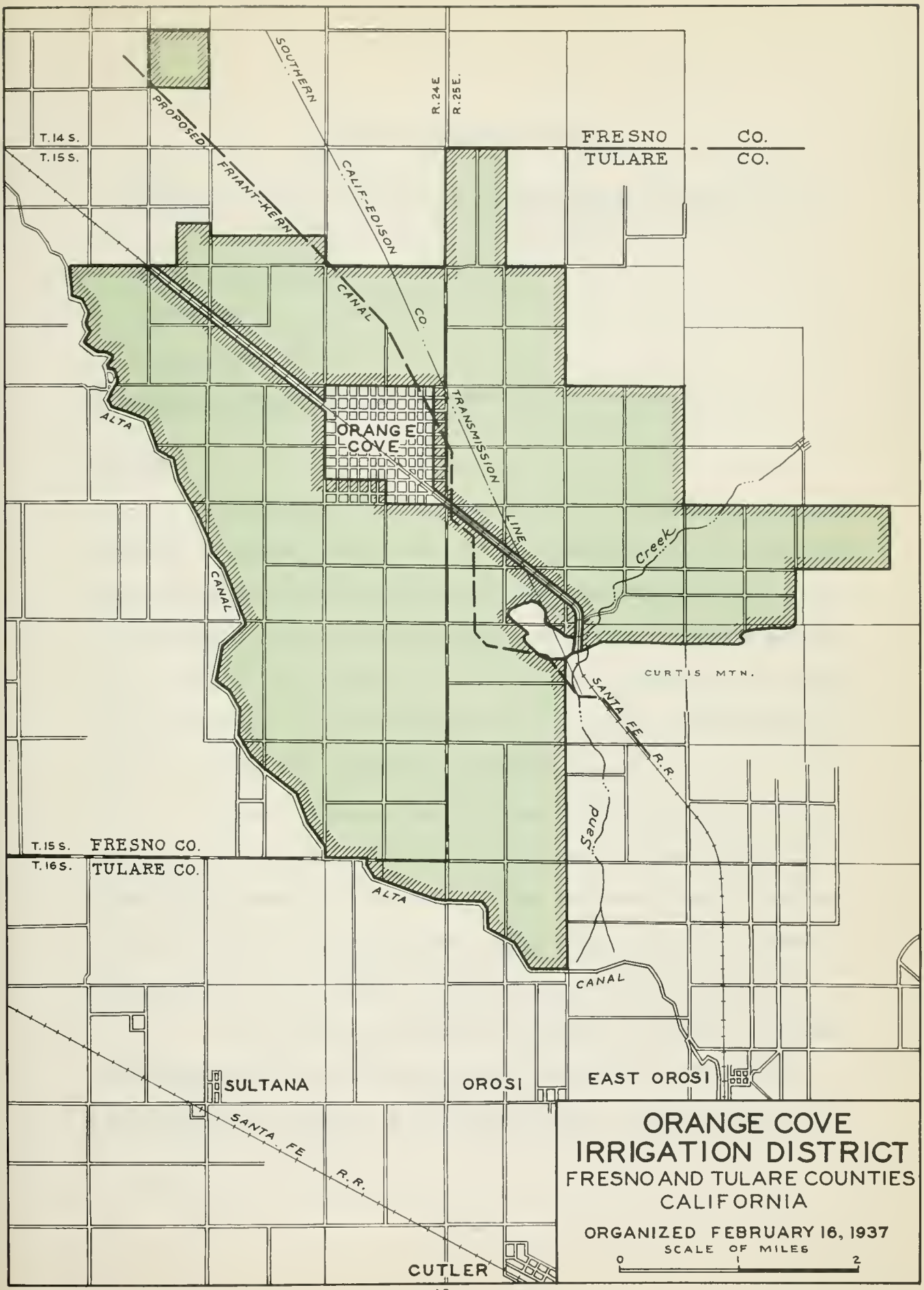
Citrus fruits and grapes were the principal plantings and occupied about 4680 acres. These two crops appear best adapted to the soils and climate and are the most profitable products grown in the area.

Water Supply

Lands within the District are now dependent entirely upon the water supply pumped from private wells. The ground water has continued to fall in recent years and pumping lifts are now reported to range from 80 to 180 feet. The operating wells yield from 6 to 60 gallons per minute with a few wells along the Alta Canal producing some-

what larger amounts.

There is little possibility of replenishing the ground water in the district from local runoff and importation of an outside supply is the only hope of sustaining the development that has been made. The proposed Friant-Kern Canal of the Central Valley Project will pass diagonally through the district making it possible to serve half of the area by gravity and the remainder by reasonable pumping lifts from the canal.


SOUTHERN
PROPOSED
FRIANT-KERN
CANAL
CALIF-EDISON
CO.
R. 24 E.
R. 25 E.
T. 14 S.
T. 15 S.
FRESNO CO.
TULARE CO.
ALTA
CANAL
ORANGE COVE
TRANSMISSION LINE
Creek
CURTIS MTN.
SANTA FE R.R.
Sand
T. 15 S. FRESNO CO.
T. 16 S. TULARE CO.
ALTA
CANAL
SULTANA
OROSI
EAST OROSI
SANTA FE R.R.
CUTLER
ORANGE COVE IRRIGATION DISTRICT
FRESNO AND TULARE COUNTIES
CALIFORNIA
ORGANIZED FEBRUARY 16, 1937
SCALE OF MILES
0
1
2

EXETER IRRIGATION DISTRICT

Location: Eight miles east of Visalia between Kaweah River and the base of the Sierra foothills.

Date of Organization: March 13, 1937

Gross Area: 12,260 acres

Post Office: Exeter

Railroad Transportation: Southern Pacific and Santa Fe

History

The first settlers in the Exeter area appeared on the south bank of the Kaweah River about 1850, but they were more interested in gold mining than in agriculture. In 1853, however, the first attempt at irrigation in the San Joaquin Valley is said to have been made in this vicinity, when a ditch was built from Mill Creek near the present city of Visalia to furnish power for a grist mill, and water was taken from this ditch to irrigate some grain and gardens.

Stock raising gradually sprang up along the bottom lands of Kaweah River and grain farming became prevalent in the valley. A great many ditches were constructed from the river in early days and the entire flow of the stream was gradually appropriated for other lands long before irrigation in the Exeter area was considered.

In 1888 when the East Side Branch of the Southern Pacific was being constructed through Dinuba, the townsite of Exeter was laid out in the center of a large wheat field. Growth of the com-

munity was rather slow until 1894 when the first extensive orange plantings were made at Bonnie Brae a short distance east of town. These first groves came into bearing about 1900, and the community soon began to realize the value of more intensive cultivation, made possible by irrigating from wells. During the next few years an extensive area around the town was developed. Several pioneer tracts of grapes were set out in 1905. Exeter rapidly became a thriving shipping point for products of the surrounding country.

Soils and Topography

The Exeter District occupies a narrow strip of land about 2⅛ miles wide and 8 miles in length extending out upon the alluvial cone of Kaweah River from the base of the adjacent foothills. The entire area lies between elevations 340 and 470 feet above sea level. Surface topography is generally smooth with a slope of 15 or 20 feet to the mile in a westerly direction, affording very favorable drainage conditions. Yokohl Creek crosses the northeastern portion of the district and Outside Creek flows southerly a mile or two beyond the west boundary.

The major portion of the area is occupied by 1st and 2nd grade soils of the Exeter, Hanford and Greenfield series with lesser areas of 4th grade San Joaquin sandy loam in the northeast and southeast corners. These soils are easily tilled and are well adapted to irrigation. They are particularly suited to the growing of grapes, deciduous and citrus fruits.

Present Development

The district as finally organized contains about 12,260 acres within its boundaries. The townsite and railroad yards occupy about 600 acres. Of the remaining 11,660 acres, it is estimated that 15 per cent is occupied by roads, farmsteads and rights of way leaving about 9,900 acres as the net irrigable area.

The city of Exeter with a present population of over 3,000 people was incorporated in 1911 and is a part of the district. It contains more than thirty active fruit packing plants and is the local shipping point for all products of the surrounding country, being served by the Southern Pacific, the Atchison Topeka and Santa Fe, and the Visalia electric railroads, as well as by several paved main line highways.

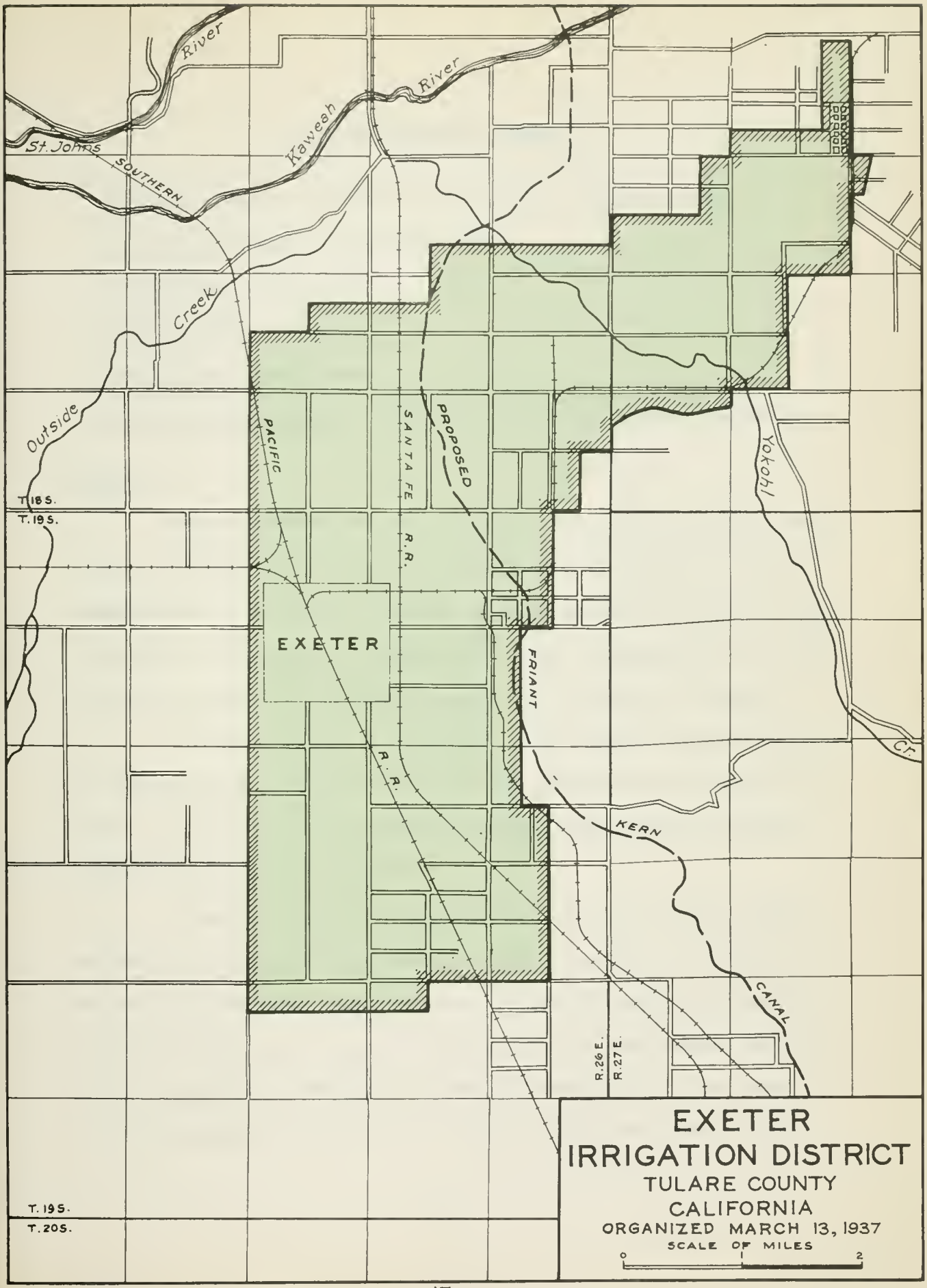
The farm population of the district is reported to be about 1000 persons. The size of holdings vary from 160 acres down, with tracts of 10, 20, and 40 acres being the most common. Seventy-six per cent of the gross area or 9600 acres is now under irrigation from private wells. Practically all of the plantings consist of crops of a permanent nature. A survey made in 1935 showed 5248 acres in vineyards, 3141 acres in citrus, 1139 acres in deciduous fruits, nuts and olives, while only 77 acres were listed as being devoted to alfalfa and annual crops.

Water Supply

When irrigation was first undertaken in the Exeter area ground water was obtained within easy pumping lifts and was believed to be ample for all purposes. Well drilling increased very rapidly after 1900, and the heavy draft gradually diminished the available underground supply that had accumulated over a long period of years. In 1909 there were reported to be 739 irrigation pumping plants in all Tulare County. This number increased to 3758 in 1920 and rose to 7964 in 1930. Over half of these pumps are located on the Kaweah Delta which is now probably the largest pumping area in California.

In the Exeter District the average drop of the water table has been 3 to 5 feet per year since 1921. Water levels taken in the fall of 1935 show a depth of about 75 feet below ground surface along the western boundary while two miles east along the edge of the foothills the depth is 130 feet. The ground water profiles slope easterly toward the base of the hills showing the greatest depletion under the highly developed areas.

This serious condition can be remedied only by importation of water from other sources. The district was organized to contract for such a supply from the proposed Friant-Kern Canal which will cross the area about one mile east of Exeter.


River
River
Kaweah
St. Johns
SOUTHERN
Creek
Outside
PACIFIC
SANTA FE
R.R.
PROPOSED
Yokohl
T.18S.
T.19S.
EXETER
FRIANT
R.R.
KERN
Cr.
CANAL
R.26E.
R.27E.
T.19S.
T.20S.
EXETER
IRRIGATION DISTRICT
TULARE COUNTY
CALIFORNIA
ORGANIZED MARCH 13, 1937
SCALE OF MILES
0
1
2

LINDMORE IRRIGATION DISTRICT

Location: West of Lindsay and Strathmore in Tulare County

Date of Organization: March 6, 1937

Gross Area: 31,550 acres

Principal Town: Lindsay

Post Office: Strathmore

Railroad Transportation: Branch line Southern Pacific Railroad

History

This territory was largely devoted to cattle raising in early days, but during the 80's wheat growing became an important industry. Large tracts of land were leased and planted by those who were willing to gamble on the profits. Abundant crops were produced when the rainfall was plentiful, but everything was lost in seasons of drought.

In 1888 the East Side Branch of the Southern Pacific Railroad was laid out and a large tract of land was donated for the townsite of Lindsay. Two years later a depot was erected and shortly after that several small shops were opened.

Meanwhile certain enterprising citizens had started experimenting with orange culture. Early in 1890 a few acres of trees were set out near the town. The first well in Tulare County to be used for irrigating purposes was bored with hand tools to supply water for this grove. Water then stood within 19 feet of the surface. The venture was very successful and within a few years the citrus industry was

felt to be assured. Large tracts were subdivided for orchard development which spread eastward toward the hills and south along the railroad.

The extensive pumping to supply this new development gradually lowered the ground water levels until the productivity and even the life of many of the orchards were jeopardized. In 1915 the Lindsay-Strathmore Irrigation District was organized to bring in a supplemental supply of water from the Kaweah River. It included within its boundaries, however, only the area lying east of the Southern Pacific Railroad. The developed lands on the west side of the right of way continued to survive by pumping from great depths, but were faced with a constantly diminishing water supply. The long period of expensive litigation over water rights experienced by the Lindsay-Strathmore District did not encourage further efforts to secure water from the Kaweah River. In fact, no attempt to organize other districts in this area was made until plans of the Central Valley Project offered an opportunity of securing imported water from the San Joaquin River through the Friant-Kern Canal.

Soils and Topography

The Lindmore district comprises a fairly compact body of valley land lying directly west of the Lindsay-Strathmore District. The Southern Pacific Railroad serves as the dividing line between the two organizations for a distance of seven miles.

The lands of the district are generally smooth with a slope to the northwest of about 10 feet to the mile. The southeast corner extends back into the hills where the topography of a limited area is more uneven. Slopes in this section east of the railroad increase from 20 feet to the mile on the flatter portions to over 100 feet to the mile on the steeper hillsides.

The latest soil survey of the area made in 1935 shows the existence of a large number of different soil types, represented chiefly by the Exeter, Madera and San Joaquin loams, with a strip of Porterville clay adobe along the hills in the southeast corner. Several classifications have been made as to quality of district lands for agricultural use, the more conservative placing about 26 per cent of the area in Grade 1, and the remainder with the exception of small areas of rough or alkaline lands, in Grade 2. Grade 1 is defined as friable permeable soils extending to depths of six feet or over; drainage conditions satisfactory and expected to remain so under irrigation; soil free from alkali, and with uniform slopes not exceeding 6 per cent. Grade 2 lands are somewhat less desirable for irrigation. The productivity of these soils may be slightly affected by drainage defects or the presence of some alkali.

Present Development

The gross area of the district as organized is 31,550 acres of which 26,000 acres are estimated to be cultivable lands. About 600

acres consist of rough hill land and 280 acres of non productive alkali. The remaining 4,670 acres are taken up by farmsteads, roads, railroad rights of way and other non cultivable areas.

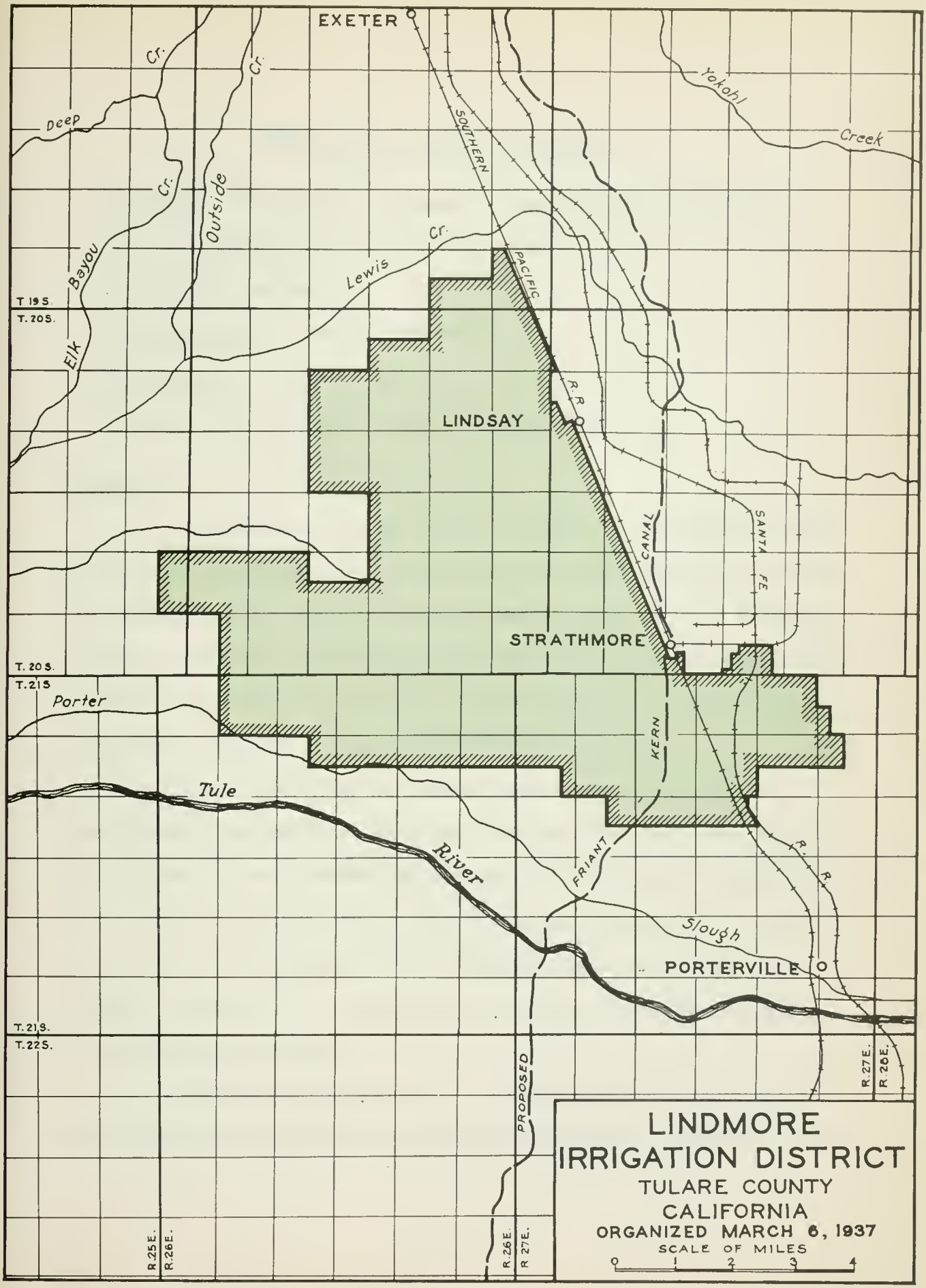
The district has no towns within its boundaries, but Lindsay with a population of 4,000, and Strathmore with several hundred inhabitants are situated just outside the area on the Southern Pacific Railroad. They are the chief shipping points and outlets for the fruit and olive packing industries. The average truck haul to these towns from points in the district is about five miles. The area is also served by two main line state highways leading to other valley centers. The farm population is estimated to be around 2,000 persons. Size of holdings vary widely. There is one of 1,109 acres of undeveloped land, one of 720 acres, and five ranging from 200 to 400 acres, but the major portion of the lands are held in 20 to 40 acre farms.

A crop survey made in 1935 shows that about 55 per cent of the gross area or 17,533 acres were being irrigated from private wells. Of this acreage 13,307 acres were developed to the following permanent crops: citrus 7,537 acres, vines 3,247 acres, miscellaneous fruits and nuts 2,523 acres. The remaining irrigated area consisted of cotton 2,987 acres, alfalfa 616 acres and field crops 623 acres.

Water Supply

As previously stated, pumping in the Lindmore area began more than forty years ago when ground water stood within twenty feet of the

surface. As the irrigated area increased and additional wells were drilled, the water table steadily receded. By 1921 a material drop over a wide area had taken place and investigations were undertaken to find a solution to the problem. Records were kept from 1921 to 1935, which show the depth to water in a large number of representative wells. These indicate that an average fall of 7 to 9 feet per year took place during this period. The water table now stands over 200 feet from the surface under a considerable portion of the developed lands in the district and pumping costs are correspondingly high. The only possibility of recharging the ground waters is through the importation of an outside supply. The route of the proposed Friant-Kern Canal will pass across the southeast corner of the district in the vicinity of Strathmore. Ninety per cent of the cultivable lands can be served by gravity from this source when the works are completed, and the remaining areas can be reached by economical pumping lifts from the canal.


EXETER
Deep Cr.
Cr.
Outside
Cr.
Yokohl Creek
SOUTHERN PACIFIC R.R.
Bayou
Lewis Cr.
T. 19 S.
T. 20 S.
ELK
LINDSAY
CANAL
SANTA FE
STRATHMORE
T. 20 S.
T. 21 S.
Porter
KERN
Tule
River
FRIANT
R. R.
Slough
PORTERVILLE
T. 21 S.
T. 22 S.
PROPOSED
R. 27 E.
R. 26 E.
R. 25 E.
R. 26 E.
R. 26 E.
R. 27 E.
LINDMORE
IRRIGATION DISTRICT
TULARE COUNTY
CALIFORNIA
ORGANIZED MARCH 6, 1937
SCALE OF MILES
0 1 2 3 4

SHAFTER-WASCO IRRIGATION DISTRICT

Location: Twenty miles northwest of Bakersfield in Kern County

Date of Organization: September 3, 1937

Gross Area: 41,385

Principal Towns: Shafter and Wasco

Post Office: Shafter

Railroad Transportation: Santa Fe Railroad

History

Irrigation in the Kern River area was first undertaken about 1858 or 1860 when small private ditches were constructed from the river to irrigate grain. The first water to reach the vicinity of Wasco occurred in 1876 when the Calloway Canal was built by predecessors of the present Kern County Land Company. Corn and alfalfa were irrigated in the area to the east to supply winter forage for cattle.

Prior to 1910 Shafter had no history save as pasturage for Land Company beef cattle. About that year pumping from ground water for irrigation was undertaken on tracts outside the canal service areas. The first notable plantings of trees and vines near Shafter was made in 1914 and shortly afterward the Land Company placed 7000 acres on the market. The influx of settlers was quite rapid and additional lands were subdivided and sold.

The Shafter-Wasco area was included within the boundaries of the first Kern River Water Storage District which was organized in 1923

to take in 248,000 acres both north and south of the river. The various interests affected failed to reach a satisfactory agreement, however, and this district was dissolved in 1929 without accomplishing its plans for developing water.

In 1935 the areas under the Calloway and Lerdo canals east of Shafter and Wasco were organized as the North Kern Water Storage District and two years later the Shafter-Wasco unit was formed under the irrigation district act. Both of these organizations looked to the Central Valley Project as a source of securing an additional water supply.

Soils and Topography

The area included within the Shafter-Wasco District is a portion of the flat valley plain that slopes westerly with a fall of 10 or 12 feet to the mile. The soils are generally of desirable texture for cultivation, sandy loam types predominating. The greater portion of these lands have been classified as soils of the Hanford, Hesperia and Cajon series with lesser areas of such other types as Exeter, Traver, Milham and Madera loams.

About 75 per cent of the district area has been rated as Class 1 land, composed of excellent soils with a wide range of agricultural use for field crops, vines or deciduous fruits. An additional 17 per cent falls in Classes 2, 3 and 4 and is suited more particularly to shallow rooted field crops, while only 8 per cent of the area may be considered as poorer soil restricted to pasturage purposes.

Present Development

The district has a gross area of 41,385 acres of which 85 per cent or 35,000 acres may be considered as irrigable land. A survey made in 1936 showed almost 30,000 acres under cultivation. The principal crops were cotton and potatoes which accounted for 14,000 and 7,900 acres respectively. The remainder was in vineyards, alfalfa, grain, deciduous fruits, and vegetables in the order named. Cotton and potatoes have produced exceptional yields on these lands and are expected to remain the chief product in subsequent years.

There are about 500 land ownerships within the district exclusive of town lot holdings. Thirty-seven ownerships control 22,800 acres which is slightly more than 50 per cent of the district area. These holdings range from 11,173 acres down to 160 acres. There are forty-six holdings of 160 to 80 acres each and 273 varying from 80 to 20 acres. The remaining area is in small ownerships from 20 acres down to town lots.

The two thriving towns of Wasco and Shafter with populations of 2700 and 2000, respectively, are located within the district on the Atchison Topeka and Santa Fe Railroad. The total population of the district is estimated at 6500 persons of whom 2300 are registered voters.

The Santa Fe Railroad runs southerly through the district for about 15 miles providing convenient shipping facilities for local products. Surfaced highways also serve the area and much of the produce

is hauled by truck to Bakersfield, Los Angeles and other market centers.

Water Supply

With the exception of a few ranches that have retained their Callaway Canal water rights, practically the entire area of the district is irrigated by pumping from the underground supply. It is therefore of vital interest that the water plane under the developed lands be maintained from year to year at elevations which will permit of economical pumping lifts.

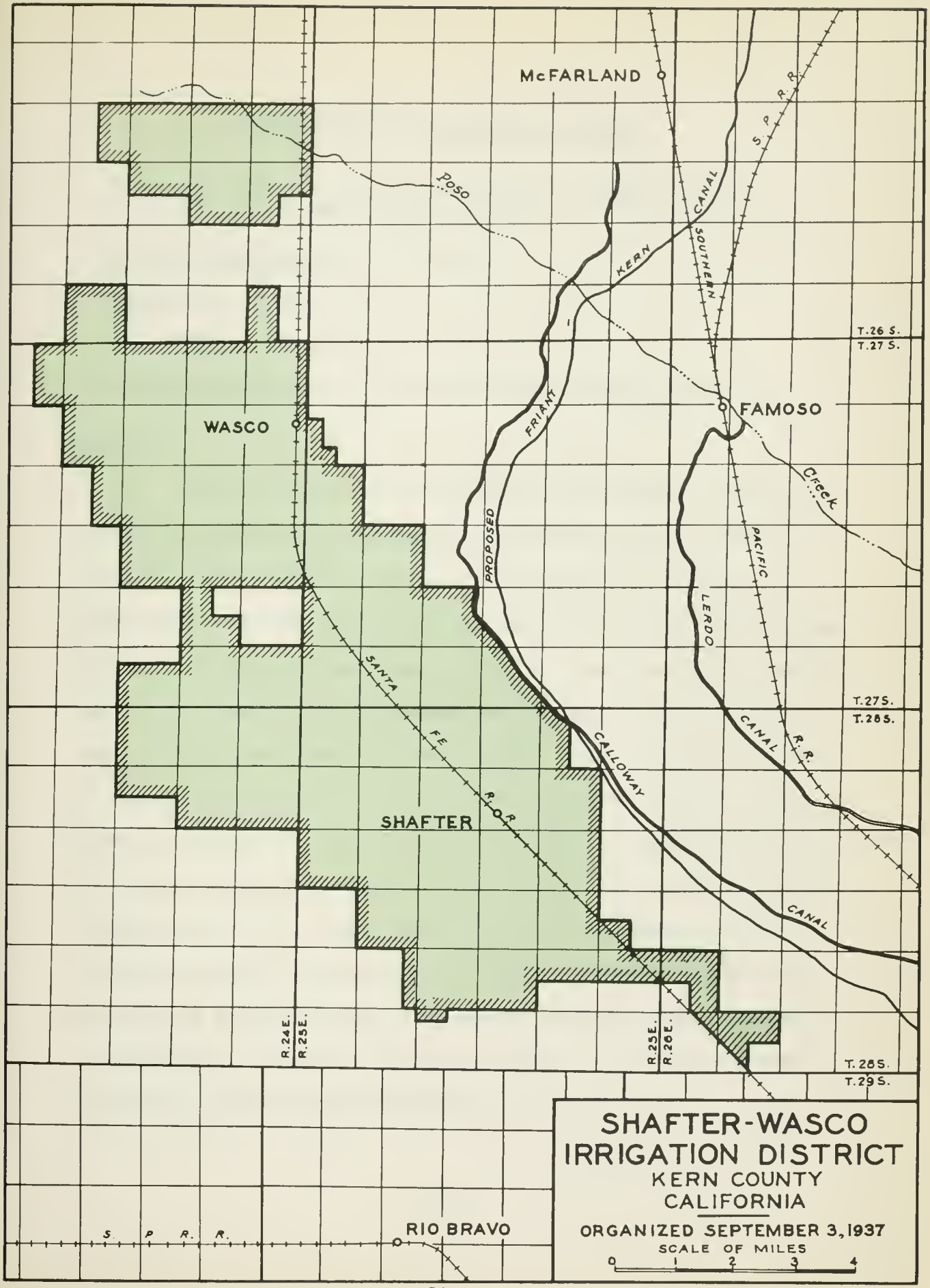
Prior to the building of the Calloway Canal in 1876, it is stated that the depth to water in stock wells was about 95 feet. As the result of many years of surface irrigation, the water table gradually rose in the canal service areas and adjacent lands to the west until it stood within 15 or 20 feet of the surface. Extensive pumping began about 1910 and a study of the ground water situation made in 1920 indicated that development had then reached as great an extent as was safe under existing conditions of replenishment.

While Poso Creek makes a small contribution to the ground water supply of the northern portion of the area, the chief source of replenishment in past years has apparently been from the diversion and use of Kern River water upon lands which lie above and immediately east of the Shafter-Wasco district.

Observations on ground water levels started in 1921 have been carried on to the present time, and show that the average drop under

areas of heaviest pumping has been about 3½ feet per year for the past 15 years. The depths to water in 1937 varied from 75 to 100 feet.

The only practical source of new water for this area appears to be from the proposed Friant-Kern Canal of the Central Valley Project which will pass along its eastern boundary making possible a gravity supply for the entire area, or furnishing a means of recharging the underground waters through spreading operations on higher lands.


McFARLAND
S. P. R. R.
POSO
KERN
CANAL
SOUTHERN
T.26 S.
T.27 S.
FAMOSO
WASCO
FRIANT
PROPOSED
Creek
PACIFIC
LERDO
T.27S.
T.28S.
SANTA
FE.
R.R.
CALLOWAY
CANAL
R.R.
SHAFTER
CANAL
R.24E.
R.25E.
R.25E.
R.26E.
T.28S.
T.29S.
S. P. R. R.
RIO BRAVO
SHAFTER-WASCO
IRRIGATION DISTRICT
KERN COUNTY
CALIFORNIA
ORGANIZED SEPTEMBER 3, 1937
SCALE OF MILES
0 1 2 3 4

KINGS RIVER DELTA IRRIGATION DISTRICT

Location: Two miles south of Stratford on northern rim of Tulare Lake in Kings County

Date of Organization: June 8, 1937

Gross Area: 3,108 acres

Post Office: Stratford

Railroad Transportation: Branch Southern Pacific Railroad

History

The greater portion of the lands of this small district lie within the boundaries of the Lovelace Reclamation District which was formed in 1903 to protect an area of 7,300 acres from inundation by Tulare Lake. In 1905 the lake bed was entirely dry, but in 1906 it was flooded, reaching a maximum depth of 12.7 feet and covering an area of nearly 300 square miles. Following 1909 the water surface began to recede until it was again practically dry in 1915. The heavy floods of 1916 brought it up once more overtopping successively most of the protecting levees that had been built. Of all the reclaimed areas on the lake bed, only the Lovelace and El Rico reclamation districts survived that year. A series of years of low runoff caused the Lake to become practically dry from 1924 to 1937. In that year it started to fill and the severe floods of 1938 brought inundation again to most of the reclamation districts, including the lands of the recently formed Kings River Delta Irrigation District.

This district is unique in that it overlaps portions of two other irrigation districts, as well as parts of the Lovelace Reclamation District and Tulare Lake Basin Water Storage District. The northern half is included in the Stratford Irrigation District, which in turn lies wholly within the Lemoore Irrigation District.

The purpose in organizing under the Irrigation District Act was a desire on the part of property owners to protect and perpetuate their right to receive certain waste waters from the lower end of the Lemoore Canal. An organization which would have the power to condemn a right of way for siphon crossing under the Tulare Lake Canal was considered necessary to secure uninterrupted service to the lands which had been utilizing this water for irrigation for a number of years.

Soils and Topography

The flat lake bed lands of the district slope southerly with a fall of about five feet to the mile. The South channel of Kings River runs along the western boundary enclosed by high reclamation levees.

The soils of the area have been classified by the U. S. Department of Agriculture as Chino and Foster loams, Sacramento clay loams, and Sacramento clay. They occur in this order in traversing the district from north to south. The higher lands are sandy friable soils generally free from gravel or gritty material. In passing south, the type becomes less sandy and merges into a belt of clay loam. The southern half of the district is Sacramento clay, sticky and plastic when

wet, but ordinarily of a friable granular structure tending toward adobe. The smooth uniform surface is favorable to tillage and irrigation, but surface drainage is slow owing to the slight slope and the heavy texture of the subsoil. No alkali is present.

Present Development

The land within the district has been under cultivation by present owners for a number of years. The entire area is held in three ownerships. The triangular piece of 112 acres at the north end is operated as a dairy ranch, but the remaining area of 2,996 acres is controlled by one management and is operated under the title of Consolidated Farms.

In addition to the works of reclamation, a complete distribution system for irrigation has been constructed with private capital and five deep wells have been drilled to supplement the surface water supply.

The principal crops of the Consolidated Farms have been wheat, barley, cotton, corn, and flax. Alfalfa is grown on the dairy ranch at the north end. The total area under cultivation in 1936 was about 2,700 acres.

The town of Stratford a mile north of the district boundary is the terminus of a branch of the Southern Pacific railroad, and affords shipping facilities for district produce. A paved state highway runs due north 35 miles to Fresno. Graded county roads extend along each side of the district and cross it on the township line.

A large investment has been made in developing the lands of the district and no further construction program is contemplated. No bonds will be issued as the district operates on a cash basis, all expenses being shared by the principal property owners.

Water Supply

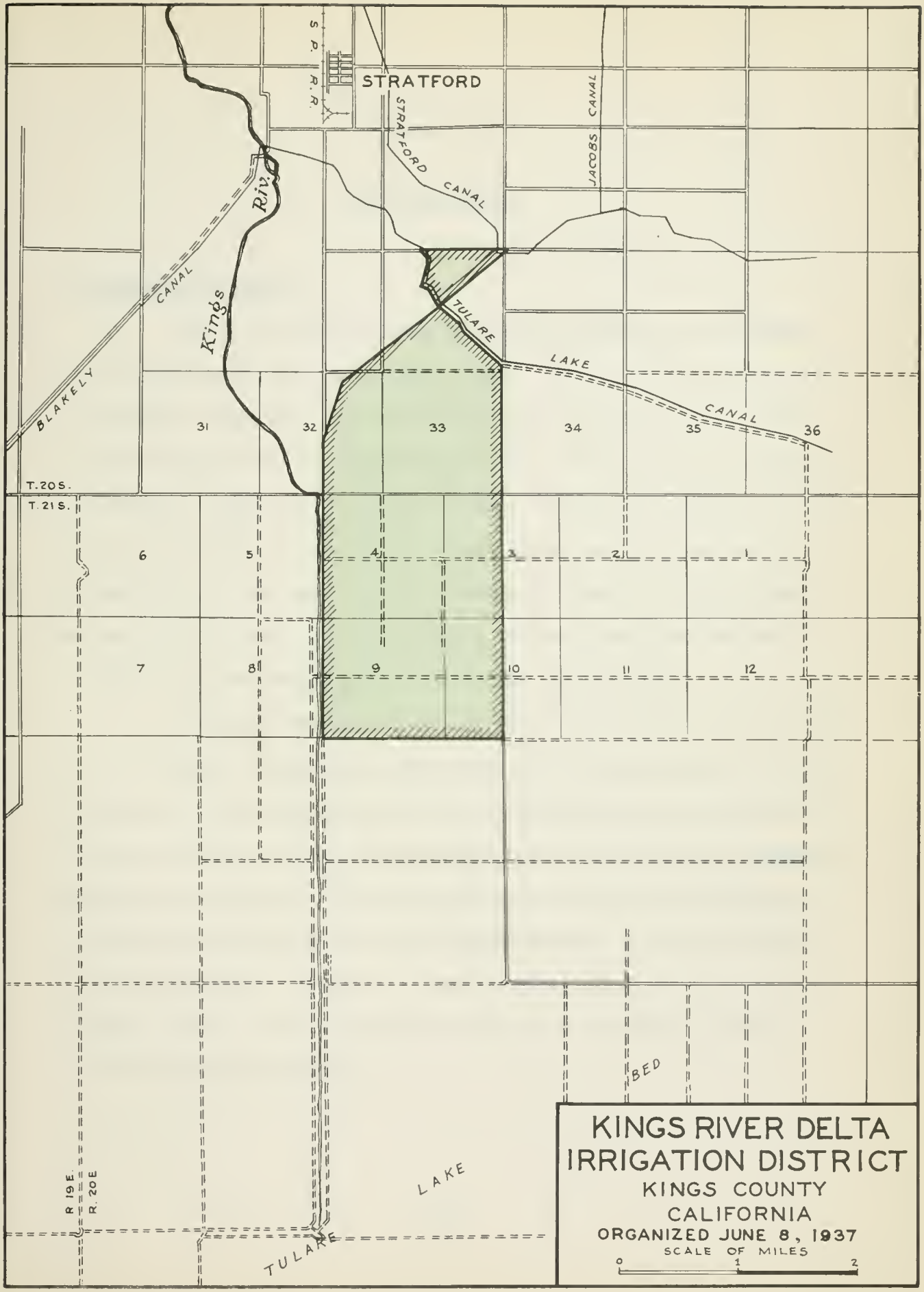
The sources of water for irrigation of district lands are stated to be direct diversion from South Channel Kings River, Tulare Lake Canal Company, Empire Water Company, Lemoore Canal and Irrigation Company, Last Chance Water Ditch Company, and pumping from underground or surface waters.

Lands in the Lovelace Reclamation District have a right to the first 26 second-feet of flow in the River channel at the west boundary line and diversion is made in all seasons when the runoff is sufficient to reach the intake.

In addition to these rights the property owners of the district personally own fractional shares of stock in the Lemoore Canal and the Last Chance Ditch by virtue of which they claim service from the lower ends of these systems.

Lands of the District which overlap the Stratford Irrigation District have well established rights to service from the Empire Water Company, which diverts from the South Channel of Kings River and also owns 8 5/8 shares of stock in the Lemoore Canal.

In years of low runoff pumping from deep wells has been necessary to supply lands in the southern portion of the District, but water from this source is rather poor in quality and continued use has a detrimental effect on crops unless the lands are flushed periodically by river diversions.


STRATFORD
S. P. R. R.
STRATFORD CANAL
JACOBS CANAL
Kings R.
BLAKELY CANAL
TULARE LAKE CANAL
31
32
33
34
35
36
T. 20 S.
T. 21 S.
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11
12
R. 19 E.
R. 20 E.
LAKE BED
TULARE LAKE
KINGS RIVER DELTA
IRRIGATION DISTRICT
KINGS COUNTY
CALIFORNIA
ORGANIZED JUNE 8, 1937
SCALE OF MILES
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CHAPTER III

FINANCIAL REVIEW

Refinancing Progress

There were seventy-four irrigation districts in the state with outstanding bonds on January 1, 1938. Eleven of these districts, previously in default, had completed refinancing plans through loans from the Reconstruction Finance Corporation and had issued new refunding bonds in place of the old securities. Thirty-five other districts were still classed in default, although twenty-two of these were only technically in that position since they were actually in the process of working out their refinancing plans through loans that had been authorized to compromise their outstanding indebtedness.

After the decision of the Supreme Court declaring Section 80 of the Federal Municipal Bankruptcy Act to be unconstitutional, little progress could be made in completing refunding plans until new legislation was enacted to make the approved terms of debt composition applicable to all creditors. The State Legislature passed the "Irrigation District Refinancing Act" as an emergency measure, which became effective March 30, 1937, and many of the districts filed petitions in the Superior Courts under its provisions pending satisfactory amendment of the National Bankruptcy Act.

Districts Securities Commission

Under Section 11 of the California Districts Securities Commission Act, any district that is more than 20 per cent in default in payment of debt may on application come under control of the Commission in the matter of levying assessments and making expenditures from funds. Thereafter such districts continue to operate under the Commission until the amount that can be raised by annual assessment, together with all other revenues, is sufficient to meet and pay off any matured or unrefunded obligation. In fixing assessments, these districts may levy only for such total amounts, approved by the Commission, that it will be reasonably possible for the lands to pay without exceeding a delinquency of 15 per cent. The section was designed to check the pyramiding of delinquencies that occurred during the agricultural depression when the burden of succeeding annual assessments fell upon progressively decreasing bodies of land with disastrous results.

At the beginning of the year 1937 there were twenty-one districts operating under the control and direction of the Commission. Seven of these districts completed their refunding plans or cured their defaults in this period and ceased to operate under the Commission's supervision. One new district that had been in default for some time made application to the Commission and started operating under the provisions of Section 11 on September 7, 1937.

Following is a list of all districts that levied assessments for 1937-38 under Section 11 of the Securities Commission Act, and the

dates on which these districts first notified the Commission of their intention to operate under its direction:

District	Date of Control by Commission
Banta-Carbona	July 30, 1934
Byron-Bethany	November 13, 1935
Carmichael	August 14, 1933
Corcoran	August 9, 1933
Fairoaks	August 7, 1934
Grenada	August 24, 1935
James	September 7, 1937
Lindsay-Strathmore	July 7, 1933
Merced	August 22, 1933
Montague	September 12, 1933
Naglee-Burk	August 3, 1934
Oroville-Wyandotte	August 7, 1933
Provident	August 5, 1936
Thermalito	August 24, 1933
Tracy Clover	August 10, 1933
Waterford	May 10, 1933
West Side	August 2, 1933

Although Carmichael and Fairoaks levied assessments under Soction 11, both districts completed refinancing before the end of the year 1937 and ceased to operate under the Commission.

During the year 1937 a large number of petitions were presented to the California Districts Securities Commission in connection with financial reorganization programs and valuable assistance was given to both the districts and the bond holders in arriving at equitable adjustments.

Plans Approved

Plans for refunding outstanding indebtedness through loans from the Reconstruction Finance Corporation were examined and approved

District	Amount of Bonds	Purpose
La Mesa, Lemon Grove and Spring Valley	$ 145,000	Pipe line replacement
Pacheco Pass Water District	180,000	Storage works and lands
Richvale	90,000	Water rights and facilities
Imperial (Revenue)	1,518,000	Power development project
Imperial (Revenue)	700,00	Electric transmission system

Expenditures Authorized

The following expenditures were authorized to be made by districts operating under Commission control for items that were not anticipated at the time their budgets were prepared for the year.

District	Expenditure	Purpose
Corcoran	$ 12,600	Dredger for cleaning canals
Nevada	14,315	Emergency repairs to dam
West Side	3,798	Cooperative drainage project
West Side	3,010	Completion of drainage canal
West Side	4,584	Concrete conduit through Tracy

Contracts Sanctioned

Petitions for approval of contracts and agreements entered into by a number of the districts were investigated and approved by the Commission.

District	Purpose of Contract
Banta-Carbona	Waiving statute of limitations on warrants
Glenn-Colusa	Waiving statute of limitations on maturing bonds
Imperial	All American Canal Power Development
Imperial	Construction of rural electric transmission system
La Mesa, Lemon Grove and Spring Valley	Construction of pipe line replacement
Paradise	Purchase of water meters for system
Richvale	Purchase of water rights of Sutter Butte Canal
Santa Fe	Settlement of judgment for attorneys fees
Tulare	Purchase of stock of Wutchumna Ditch
Waterford	Waiving statute of limitations on maturing bonds

District Finances

A review of irrigation district financial affairs as of January 1, 1938, shows that considerable progress was made during the year in restoring these organizations to a sound operating basis. A total of $20,385,924 in R.F.C. loans was disbursed up to that time to purchase outstanding bonds and warrants of districts in default. The Reconstruction Finance Corporation held as security for the loans advanced $35,242,689 face value of old securities and $4,050,268 in new refunding issues.

A total of 35,835 acres of district lands was reported sold back to private ownership and restored to the assessment rolls during the year. The total revenue collected by districts from all sources during 1937 was $12,543,150 while total expenditures made during this same period was $12,060,044.

The average percentage of delinquencies in payment of assessments has steadily decreased during the last three years and for the districts as a whole averaged only 11 per cent for the year 1937. This is 3 per cent less than the average for the preceding year as indicated by the amount of tax certificates sold.

386,100 acre-feet pumped from district wells. The total quantity diverted was 9,344,900 acre-feet, an increase of 375,900 acre-feet over that diverted in 1936.

The districts operated 317 irrigation wells and 297 drainage wells, and for all pumping operations reported an installation of 38,378 horsepower. To supplement the water furnished by the districts, landowners within these areas operated 12,972 private irrigation wells for which no information is available as to the quantities of water pumped.

Irrigation District Crop Summary

Table II shows the gross and irrigable areas of 96 irrigation districts. It gives the dry-cropped and irrigated acreage reported for 1937. The number of individual holdings in each of the districts is shown, and the area held by districts under tax deeds as of January 1, 1938.

The 96 irrigation districts listed contain a total of 3,469,994 acres of land, of which 2,889,900 acres are considered irrigable. The total number of separate holdings reported by these districts was 112,944, of which it is estimated that 75,415 are farm holdings with a population of about 246,900.

The areas held by districts under tax deed increased from 333,760 acres on January 1, 1937, to 352,177 acres on January 1, 1938. The percentage of the total area of all districts held under tax deed on January 1, 1938, was slightly more than 10 per cent, about the same

as it stood in the preceding year. Although many of the districts have been able to resell lands and get them back on the tax rolls in other areas less favorably situated the districts have taken title to additional tracts on which they have held tax sale certificates for a number of years.

The districts reporting in 1937 gave a total cropped area of 2,034,473 acres, of which 1,844,325 acres were irrigated and 200,148 acres were dry farmed. There were also 314,620 acres reported double cropped making a total of 2,349,093 acres harvested during the season. Sixty-four per cent of the irrigable area was irrigated. This was an increase of 139,178 acres in area irrigated as compared to that reported in 1936.

Assessments, Tax Certificates, Receipts and Expenditures

Table III sets up the principal sources and amounts of income for each of the active irrigation districts. The total assessments payable in these districts for the calendar year 1937, computed by taking one-half the sum of the levies made for 1936-37 and 1937-38 was $4,874,561. This was a decrease of $135,188 in the amount levied for the previous calendar year. A comparison of the total assessments levied during the past seven years and the apparent average delinquencies as shown by the amount of tax certificates sold each year is given in the following table:

Assessment Year	Total Assessments	Total Tax Certificates Sold	Average Per cent of Delinquency
1930-31	$10,286,582	$2,387,518	23
1931-32	9,794,594	3,748,372	38
1932-33	6,802,006	3,681,896	54
1933-34	4,535,253	1,589,926	35
1934-35	4,638,001	1,443,583	31
1935-36	5,167,802	746,207	14
1936-37	4,851,696	551,815	11

The total amount of tax certificates sold in 1937 was about 26 per cent less than the preceding year and shows a continued improvement in payment of the assessments levied. The average delinquency for districts as a group computed on this basis was only 11 per cent.

Collections from assessments, redemptions and penalties in 1937 amounted to $5,130,101; water tolls, water sales and power sales were $5,563,075; receipts from rentals, crop shares and miscellaneous sources added $1,354,574; while returns from sale of district owned land brought in $495,400, making a grand total of $12,543,150 collected during the year. The expenditures for all purposes during this same period amounted to $12,060,044 as shown by the last column of the table.

Bonds and Warrants

Table IV presents the status of irrigation district bonds and registered warrants outstanding on January 1, 1938. There were twenty odd districts still in the process of refinancing their outstanding indebtedness on that date. Eleven districts had completed

their refunding programs and had issued new bonds to the Reconstruction Finance Corporation to cover the loans made in buying up the old securities at a discount.

The tabulation shows the amount of bonds sold, refunded, paid and outstanding, as well as the amount of principal and interest in default.

For thirty of the districts the amounts of the R.F.C. loans disbursed are given, and the face value of bonds held by R.F.C. as security for these loans. A comparison between the columns showing the bonds outstanding and the bonds held by R.F.C. indicates the extent to which the refunding plans had been completed at the beginning of the year 1938.

In many of the districts refunding bonds have been approved and voted, but will not be issued to R.F.C. until practically all of the old securities have been taken up. Until these transactions are completed, the old bonds must be considered the outstanding obligations of the districts and unpaid interest and principal due are shown accordingly. This does not present a true picture of the actual conditions where the old bonds are held by R.F.C. for repayment upon the same terms that would be the case if refunding bonds had been issued. The true capital debt in this case is only that represented by the loan on which interest is being paid at the rate of 4 per cent.

As of January 1, 1938, seventy-four districts had a total

of $89,259,509 in bonds outstanding. The Reconstruction Finance Corporation had authorized disbursal of loans in the amount of $20,385,924 by thirty districts, and held as security $35,242,869 in old bonds and $4,050,268 in new refunding issues.

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TABLE I

DATA RELATING TO SOURCE OF SUPPLY, STORAGE AND DISTRIBUTION OF WATER FOR CALIFORNIA IRRIGATION DISTRICTS
JANUARY 1, 1938

Name of District	Source of Water Supply	Wells and Pumps				District Plants		Reservoirs		Acre-feet reported diverted by Districts, 1937			Distribution of Water Diverted by Districts			
		District			Private	Installed Horse power	Average Pump Lift Feet	Capacity Acre-feet	Storage Available for Season Acre-feet	By Pump	By Gravity	Total	Inside District Boundary			Outside District Acre-feet
		Irrigation	Drainage	Total									Irrigation Acre-feet	Domestic Acre-feet	Total Acre-feet	
Alpaugh	Wells	36	-----	36	0	900	75	--------	--------	12,500	--------	12,500	12,411	--------	12,411	89
Alta	Kings River	------	-----	------	2,100	------	-----	--------	--------	0	194,175	194,175	194,175	--------	194,175	--------
Anderson-Cottonwood	Sacramento River	------	-----	------	-----	115	17	--------	--------	--------	112,819	112,819	112,819	--------	112,819	--------
Banta-Carbona	San Joaquin River	------	8	8	1	4,350	113	--------	--------	37,348	--------	37,348	34,504	--------	34,504	2,844
Bard (Part of Yuma Proj	Colorado River	------	-----	------	-----	------	-----	--------	--------	--------	20,700	20,700	20,700	--------	20,700	--------
Baxter Creek	Eagle Lake	------	-----	------	-----	------	-----	--------	--------	--------	--------	No Rept.	--------	--------	--------	--------
Beaumont	San Gorgonio Creek and Wells	10	-----	10	0	770	116	420	420	2,012	325	2,337	1,937	600	2,337	--------
Big Springs	Big Springs	------	-----	------	-----	325	44	--------	--------	6,036	--------	6,036	6,036	--------	6,036	--------
Browns Valley	North Fork Yuba River	------	-----	------	-----	------	-----	--------	--------	--------	21,298	21,298	19,712	1,576	21,288	--------
Butte Valley	Butte and Antelope Creeks and Wells	7	-----	7	0	180	42	--------	--------	2,400	1,000	3,400	2,100	--------	2,100	--------
Byron-Bethany	Old River (San Joaquin River)	------	3	3	-----	1,105	70	--------	--------	15,965	--------	15,965	15,965	--------	15,965	--------
Camp Far West	Bear River	------	-----	------	-----	------	-----	5,000	5,000	--------	5,000	5,000	5,000	--------	5,000	--------
Carmichael	American River	------	-----	------	-----	450	170	--------	--------	2,890	450	3,340	2,890	450	3,340	--------
Carpenter	Santiago Creek and Wells	2	-----	2	2	440	370	6,250	2,392	--------	1,623	1,623	1,623	--------	1,623	--------
Citrus Heights	American River (North Fork Ditch Co.)	------	-----	------	-----	------	-----	--------	--------	--------	6,300	6,300	6,300	--------	6,300	--------
Compton Delevan	Sacramento River (Glenn-Colusa I.D.)	------	-----	------	-----	------	-----	--------	--------	11,145*	--------	11,145	7,000	--------	7,000	--------
Consolidated	Kings River	------	-----	------	3,600	------	-----	--------	--------	--------	449,100	449,100	413,000	--------	413,000	6,350
Corcoran	Kings River, Cross Creek and Wells	14	-----	14	215	607	90	--------	--------	9,167	60,440	53,607	58,607	--------	58,607	--------
Cordua	Yuba River	------	-----	------	-----	------	-----	--------	--------	--------	12,993	12,993	8,509	--------	8,508	4,485
Deer Creek	Deer Creek	------	-----	------	-----	------	-----	--------	--------	--------	3,100	3,100	3,100	--------	3,100	--------
East Contra Costa	Old River (San Joaquin River)	------	10	10	3	2,320	99	--------	--------	25,376	--------	25,376	20,760	--------	20,760	--------
El Camino	Wells	30	-----	30	0	895	50	--------	--------	3,812	--------	3,912	3,812	--------	3,812	--------
El Dorado	So. Fork American River and Webber Creek	------	-----	------	2	------	-----	1,450	1,275	--------	12,900	12,900	10,991	1,914	12,795	105
El Nido	Wells and purchase from Merced I. D.	5	-----	6	65	110	45	--------	--------							
Empire West Side	Kings River and Wells	------	-----	------	6	------	-----	--------	--------	--------	6,000	6,000	6,000	--------	6,000	--------
Exeter	Private Wells	------	-----	------	-----	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Fairoaks	American River (North Fork Ditch Co.)	------	-----	------	-----	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Fallbrook	Private Wells	------	-----	------	240	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Fresno	Kings River and Wells	7	-----	7	3,000	210	30	--------	--------	--------	506,100	506,100	474,200	--------	474,200	31,900
Glenn-Colusa	Sacramento River	------	-----	------	-----	3,375	9	--------	--------	473,420	11,385	494,805	343,249	--------	343,249	136,605
Grenada	Shasta River	------	-----	------	-----	650	95	--------	--------	5,869	--------	5,869	6,969	--------	5,869	--------
Hollister	San Benito River and Wells	------	-----	------	250	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Hot Spring Valley	Pit River and Big Sage Reservoir	------	-----	------	-----	------	-----	75,000	32,000	--------	8,800	8,800	9,800	--------	8,800	--------
Imperial	Colorado River	------	-----	------	-----	------	-----	--------	--------	--------	3,904,718	3,904,718	3,026,632	--------	3,026,632	878,086
Island No. 3	Kings River (From Consolidated I. D.)	------	-----	------	140	------	-----	--------	--------	--------	6,850	6,850	6,850	--------	6,850	--------
Jacinto	Sacramento River	------	-----	------	-----	------	-----	--------	--------	16,219*	--------	16,219	16,111	--------	16,111	108
James	Kings and San Joaquin Rivers and Wells	67	-----	67	-----	1,335	50	--------	--------	26,610	14,239	40,748	40,256	--------	40,256	492
Kings River Delta	Kings River and Wells	------	-----	------	5	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
La Canada	Canyons, Tunnels and Wells	2	-----	2	1	285	900	10	10	62	375	437	--------	437	437	--------
Laguna	Kings River	------	-----	------	300	------	-----	--------	--------	--------	66,000	66,000	66,000	--------	66,000	--------
Lakeland	Kings and Tule Rivers and purchase	------	-----	------	-----	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Lakeside	Wells	1	-----	1	0	16	140	--------	--------	46	--------	46	--------	36	36	10
La Mesa, Lemon Gr.&S.V.	San Diego River (El Capitan Dam)	------	-----	------	-----	1,020	20	22,595	17,510	2,206	2,474	4,680	3,675	----------	3,675	155
Lemoore	Kings River (Lemoore Canal and Irrig. Co.)	------	-----	------	-----	------	-----	--------	--------	--------	107,909	107,909	107,909	----------	107,909	--------
Linden	Calaveras River, Rock Creek and Wells	------	-----	------	200	------	-----	7,000	7,000							
Lindmore	Private Wells	------	-----	------	-----	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Lindsay-Strathmore	Kaweah River and Wells	39	-----	39	40	1,520	120	27	--------	9,985	6,191	15,076	14,894	182	15,076	--------
Littlerock Creek	Littlerock Creek and Wells	------	-----	------	2	------	-----	4,500	2,200	--------	1,582	1,582	1,543	39	1,582	--------
Lucerne	Kings River (Last Chance Water Ditch Co.)	------	-----	------	-----	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------
Madera	Private Wells, Fresno R. (M.C. and I. Co.)	------	-----	------	2,000	------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------

TABLE I

DATA RELATING TO SOURCE OF SUPPLY, STORAGE AND DISTRIBUTION OF WATER FOR CALIFORNIA IRRIGATION DISTRICTS (CONTINUED)
JANUARY 1, 1939

Name of District	Source of Water Supply	Wells and Pumps				District Plants		Reservoirs		Acre-feet Reported by Districts, Diverted 1937			Distribution of Water Diverted by Districts			
		District			Private	Installed Horsepower	Average Pump Lift Feet	Capacity Acre-feet	Storage Available for Season Acre-feet	By Pump	By Gravity	Total	Inside District Boundary			Outside District Acre-feet
		Irrigation	Drainage	Total									Irrigation Acre-feet	Domestic Acre-feet	Total Acre-feet	
Maxwell	Sacramento River (Glenn-Colusa I.D.)	-----	-----	-----	-----	-----	-----	-----	-----	6,269[a]	-----	6,269	6,269	-----	6,269	-----
Merced	Merced River and Wells	-----	87	87	270	2,000	42	289,000	744,000	87,000	430,000	517,000	430,000	-----	430,000	10,000
Modesto	Tuolumne River and Wells	-----	65	65	130	1,132	29	110,600	93,900	54,559	274,893	329,452	329,452	-----	329,452	-----
Montague	Shasta River	-----	-----	-----	-----	-----	-----	70,000	9,800	-----	7,360	7,360	4,214	-----	4,214	-----
Naglee-Burk	Old River (San Joaquin River)	-----	-----	-----	-----	125	16	-----	-----	6,244	-----	6,244	6,221	-----	6,221	23
Nevada	Yuba River and Tributaries	-----	-----	-----	-----	15	14	93,000	-----	800	187,214	188,014	44,434	6,781	51,215	11,597
Newport Heights	Wells	2	-----	2	-----	255	90	-----	-----	-----	-----	-----	-----	-----	-----	-----
Newport Mesa	Wells	1	-----	1	-----	75	165	-----	-----	400	-----	400	-----	400	400	-----
Oakdale	Stanislaus River	-----	-----	-----	-----	-----	-----	56,250	56,250	-----	185,000	185,000	185,000	-----	185,000	-----
Orange Cove	Private Wells	-----	-----	-----	200	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Oroville-Wyandotte	Feather River	-----	-----	-----	-----	-----	-----	6,300	6,300	-----	31,290	31,290	15,960	-----	15,960	15,330
Palmdale	Littlerock Creek and Wells	-----	-----	-----	-----	-----	-----	9,000	9,000	-----	9,000	9,000	5,400	-----	5,400	-----
Palo Verde	Colorado River	-----	-----	-----	-----	-----	-----	-----	-----	-----	207,000	207,000	207,000	-----	207,000	-----
Paradise	Little Butte Creek	-----	-----	-----	-----	60	92	3,040	3,040	-----	2,370	2,370	1,290	-----	1,290	-----
Potter Valley	Eel River (From P.G. and E. Co.)	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,498	4,498	4,498	-----	4,499	-----
Princeton-Codora-Glenn	Sacramento River (Glenn-Colusa I.D.)	-----	-----	-----	-----	-----	-----	-----	-----	51,069[a]	-----	51,069	51,069	-----	51,069	-----
Provident	Sacramento River (Glenn-Colusa I.D.)	-----	-----	-----	-----	100	8	-----	-----	64,925[a]	-----	64,925	60,213	-----	60,213	4,712
Ramona	Wells	13	-----	13	-----	35	160	-----	-----	50	-----	50	-----	50	50	-----
Richvale	Feather River	-----	-----	-----	-----	-----	-----	-----	-----	7,500	78,766	86,266	86,266	-----	86,266	-----
Riverdale	Kings River (Murphy Slough)	-----	-----	-----	150	-----	-----	-----	-----	-----	28,000	28,000	28,000	-----	28,000	-----
San Dieguito	San Dieguito River (Lake Hodges Res.)	-----	-----	-----	-----	139	125	37,700	30,256	545	1,592	2,137	1,720	199	1,919	-----
Santa Fe	San Dieguito River (Lake Hodges Res.)	-----	-----	-----	3	245	80	37,700	29,600	-----	2,803	2,803	2,706	97	2,803	-----
San Ysidro	Wells	5	-----	5	5	50	220	-----	-----	345	-----	345	345	-----	345	-----
Scott Valley	Scott River	-----	-----	-----	-----	-----	-----	-----	-----	-----	3,500	3,500	3,500	-----	3,500	-----
Serrano	Santiago Creek and Wells	-----	-----	-----	5	-----	-----	6,250	4,000	-----	2,242	2,242	2,242	-----	2,242	-----
Shafter-Wasco	Private Wells	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Fork	South Fork Pit River	-----	-----	-----	-----	-----	-----	17,700	-----	-----	-----	-----	-----	-----	-----	-----
South Montebello	Wells	3	-----	3	0	225	180	-----	-----	732	-----	732	732	-----	732	-----
South San Joaquin	Stanislaus River	-----	-----	-----	-----	-----	-----	96,500	63,000	-----	199,600	199,600	199,600	-----	199,600	-----
Stinson	King River and Wells	21	-----	21	-----	690	56	-----	-----	18,390	-----	19,390	11,000	-----	11,000	-----
Stratford	Kings River (Empire Water Co.)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Table Mountain	Feather River	-----	-----	-----	-----	-----	-----	9,200	4,500	-----	-----	-----	-----	-----	-----	-----
Terra Bella	Wells	27	-----	27	4	1,565	400	-----	-----	5,150	-----	5,150	4,995	164	5,150	-----
Thermalito	Feather River	-----	-----	-----	-----	-----	-----	8,200	3,670	-----	7,232	7,232	3,134	2,757	5,891	-----
Tracy Clover	Old River (San Joaquin River)	-----	-----	-----	-----	125	20	-----	-----	1,320	-----	1,320	1,320	-----	1,320	-----
Tranquillity	San Joaquin River, Kings River, Wells	10	-----	10	1	555	75	-----	-----	10,000	14,000	24,000	24,000	-----	24,000	-----
Tulare	Kaweah River and Private Wells	-----	-----	-----	-----	-----	-----	-----	-----	-----	18,000	18,000	16,500	-----	16,500	1,500
Tule	Eagle Lake	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	No. Rept.	-----	-----	-----	-----
Turlock	Tuolumne River and Wells	-----	119	119	-----	2,636	40	247,000	226,500	151,475	455,118	606,593	400,000	-----	400,000	-----
Vandalia	Tule River and Wells	12	-----	12	21	520	200	-----	-----	1,825	-----	1,825	1,776	49	1,825	-----
Vista	San Luis Rey River (Lake Henshaw Res.)	-----	-----	-----	7	-----	-----	205,000	16,800	-----	7,536	7,536	7,134	402	7,536	-----
Walnut	San Gabriel River and Wells	3	-----	3	1	140	50	-----	-----	1,800	300	2,100	2,100	-----	2,100	-----
Waterford	Tuolumne River	-----	-----	-----	-----	-----	-----	-----	-----	-----	32,251	32,251	32,251	-----	32,251	-----
West Side	San Joaquin River	-----	5	5	-----	1,900	93	-----	-----	16,299	-----	16,299	16,299	-----	16,299	90
West Stanislaus	San Joaquin River	-----	-----	-----	3	4,925	105	-----	-----	47,789	-----	47,789	40,589	-----	40,589	2,460
Woodbridge	Mokelumne River	-----	-----	-----	-----	-----	-----	-----	-----	-----	92,440	92,440	92,440	-----	92,440	-----
Totals		317	297	614	12,972	38,378	112	1,413,692	1,367,422	1,196,344	7,806,740	9002,084	7,408,299	16,033	7,424,321	1,107,431
Buena Vista Water Str.	Kern River	-----	-----	-----	145	-----	-----	209,000	190,000	None	342,831	342,831	123,430	-----	123,430	5,558

[a] Pumped water purchased from Glenn-Colusa Irrigation District

TABLE II

CALIFORNIA IRRIGATION DISTRICT CROP REPORT FOR 1937

Name of District	Gross Area Acres	Irrigable Area Acres	Area Held by Districts under Tax Deed, Acres	Estimated Number of Holdings			Kind and Acreage of Irrigated Crops										Area Cropped		
				Farm Land	Town Lots	Total	Alfalfa	Cotton	Rice	Grain or Grain Hay	Other Field and Truck	Grapes	Deciduous Fruits Nuts & Olives	Citrus and Avocado	Pasture Wild	Not Segregated	Irrigated Acres	Dry Farmed Acres	Total Acres Reported Cropped
Alpaugh	9,131	7,300	3,404	168	------	168	1,200	4,000	-------	1,520	140	-----	------	------	------	300	7,160	--------	7,160
Alta	129,300	110,000	None	3,500	2,700	6,200	6,472	9,791	-------	9,412	3,161	38,019	5,322	734	36,138	------	109,049	--------	109,049
Anderson-Cottonwood	32,000	29,000	2,998	363	350	713	2,000	------	-------	90	2,145	300	775	------	3,700	------	9,000	300	9,300
Banta-Carbona	15,603	14,000	69	195	3	198	1,468	------	-------	525	11,945	23	450	------	------	------	a 13,948	80	14,028
Bard (Part of Yuma Pro.)	6,700	6,100	None	169	2	171	1,274	2,646	-------	1,765	374	------	119	93	333	------	b 5,176	--------	5,176
Baxter Creek	9,926	7,500	-------	91	------	91	500	------	-------	------	------	------	------	------	------	------	500	--------	500
Beaumont	4,141	3,100	340	360	1,260	1,620	------	------	-------	------	------	------	1,790	------	------	------	1,790	--------	1,790
Big Springs	3,696	2,600	73	50	------	50	1,121	------	-------	50	50	------	------	------	990	------	2,201	1,373	3,574
Browns Valley	44,000	11,740	None	150	25	175	------	------	-------	------	------	------	------	------	------	6,000	6,000	--------	6,000
Butte Valley	29,367	23,500	19,042	75	45	120	------	------	-------	760	580	------	------	------	------	60	1,400	--------	1,400
Byron-Bethany	17,600	14,000	None	166	61	227	3,905	------	-------	------	3,174	25	556	------	------	------	c 7,580	7,140	14,720
Camp Far West	4,085	2,660	None	8	------	8	120	------	-------	160	547	------	758	------	------	------	1,585	2,500	4,085
Carmichael	3,136	2,500	17	650	------	650	44	------	-------	------	56	245	1,022	112	------	------	1,479	--------	1,479
Carpenter	1,328	1,200	None	128	152	280	------	------	-------	------	------	------	------	1,107	------	------	1,107	--------	1,107
Citrus Heights	3,167	2,700	223	360	------	360	25	------	-------	------	102	424	1,037	61	------	------	1,649	71	1,720
Compton-Delevan	12,652	11,000	12,652	------	------	-------	60	------	-------	------	1,032	------	------	------	------	------	1,092	8,780	9,862
Consolidated	149,027	130,000	125	4,600	125	4,725	8,650	17,340	-------	400	2,335	76,876	7,709	50	29,932	------	143,291	--------	143,291
Corcoran	51,600	45,000	2,022	238	------	238	2,165	22,973	-------	4,429	1,320	------	------	------	------	------	30,787	8,168	38,955
Cordua	5,965	5,000	3,480	13	------	13	------	------	1,957	8	562	------	10	------	212	------	2,649	--------	2,649
Deer Creek	2,136	1,900	None	17	------	17	166	------	-------	130	472	10	472	------	------	------	1,250	725	1,975
East Contra Costa	20,200	17,000	638	400	120	520	511	------	-------	53	4,431	685	7,962	------	------	------	13,642	--------	13,642
El Camino	7,547	6,500	5,500	262	------	262	500	------	-------	------	900	------	800	------	400	600	3,200	--------	3,200
El Dorado	30,702	19,900	None	521	762	1,283	------	------	-------	------	------	------	4,350	------	------	------	4,350	--------	4,350
El Nido	9,330	7,400	-------	106	3	109	1,100	2,000	-------	600	700	75	25	------	1,000	------	5,500	--------	5,500
Empire West Side	6,460	5,500	None	9	------	9	------	700	-------	4,500	------	------	------	------	------	100	5,300	--------	5,300
Exeter	12,560	10,000	None	-----	------	-------	18	------	-------	26	33	5,248	1,139	3,141	------	------	9,605	--------	9,605
Fairoaks	4,268	3,700	108	299	155	454	33	------	-------	------	193	175	1,509	397	------	------	2,287	100	2,387
Fallbrook	6,794	5,000	772	308	74	382	------	------	-------	------	------	41	410	1,642	------	------	2,093	1,200	3,293
Fresno	241,300	210,000	------	9,255	------	9,255	------	------	-------	------	------	------	------	------	------	168,000	168,000	--------	168,000
Glenn-Colusa	122,390	110,000	40,110	963	------	963	6,643	------	22,769	------	7,866	70	------	803	2,906	------	41,057	15,947	57,004
Grenada	2,200	1,800	2,853	24	20	44	1,000	------	-------	80	------	------	------	------	------	------	1,080	120	1,200
Hollister	24,456	21,000	None	440	940	1,380	650	------	-------	------	4,490	360	10,320	------	------	------	15,900	4,720	20,620
Hot Spring Valley	9,533	5250	120	29	------	29	400	------	-------	4000	------	------	------	------	------	------	4400	4850	9250
Imperial	612,658	522,000	63,326	4,555	6,229	10,784	245,341	9,713	910	131,096	235,759	1,634	1,208	9,601	------	------	d 430,717	--------	430,717
Island No. 3	4,620	4,000	None	150	------	150	-------	------	-------	------	------	------	------	------	------	3,500	3,500	--------	3,500
Jacinto	11,914	10,500	240	245	------	245	932	------	-------	219	3,869	------	973	------	761	------	6,653	3,100	9,753
James	24,390	18,200	24,005	9	------	9	1,075	6,046	-------	3,632	279	18	------	------	------	------	11,049	--------	11,049
Kings River Delta	3,138	2,800	None	3	------	3	90	785	-------	1,640	219	------	------	------	------	------	2,734	--------	2,734
La Canada	1,322	1,100	187	-----	575	575	------	------	-------	------	------	------	------	------	------	Dom.	0	--------	0
Laguna	34,958	30,000	1,296	800	------	800	------	------	-------	------	------	------	------	------	------	26,000	26,000	--------	26,000
Lakeland	23,283	21,000	1,035	24	------	24	490	4,160	-------	------	------	------	------	------	------	------	4,640	15,060	19,700
Lakeside	320	250	------	-----	90	90	------	------	-------	------	------	------	------	------	------	Dom.	0	--------	0
La Mesa, Lemon Grove & S.V.	19,973	13,000	7,812	1,100	5,700	6,800	------	------	-------	------	1,112	------	517	2,691	------	------	4,320	200	4,520
Lemoore	53,100	50,000	None	700	------	700	------	------	-------	------	------	------	------	------	------	------	--------	--------	No. Rept.
Linden	8,000	7,000	------	168	24	192	76	------	-------	------	1,275	50	3,500	------	------	150	5,050	2,500	7,550
Lindmore	31,550	26,000	None	400	------	400	616	2,987	-------	151	472	.,247	2,523	7,589	------	------	17,685	3,860	21,445
Lindsay-Strathmore	14,960	14,000	4,923	366	12	378	------	45	-------	------	151	233	696	7,269	------	------	8,394	10	8,394
Littlerock Creek	2,603	2,200	1,393	96	------	95	45	------	-------	------	------	------	1,052	------	------	------	1,097	--------	1,097
Lucerne	33,400	30,000	None	-----	------	-------	------	------	-------	------	------	------	------	------	------	------	--------	--------	No. Rept.
Madera	173,005	160.000	None	2,000	2,132	4,132	3,600	41,000	-------	------	1,000	17,000	5,300	------	------	------	67,900	--------	67,900

TABLE II

CALIFORNIA IRRIGATION DISTRICT CROP REPORT FOR 1937 (CONTINUED)

Name of District	Gross Area Acres	Irrigable Area Acres	Area Held by Districts under Tax Deed, Acres	Estimated Number of Holdings			Kind and Acreage of Irrigated Crops										Area Cropped		
				Farm Land	Town Lots	Total	Alfalfa	Cotton	Rice	Grain or Grain Hay	Other Field and Truck	Grapes	Deciduous Fruits Nuts & Olives	Citrus and Avocado	Pasture Wild	Not Segregated	Irrigated Acres	Dry Farmed Acres	Total Acres Reported Cropped
Maxwell	8,820	8,000	8,820	------	------	------	-------	------	670	-------	------	------	------	------	------	------	670	--------	670
Merced	189,682	165,000	29,330	2,500	2,148	4,648	11,457	9,838	3,690	6,500	15,802	10,492	19,461	------	6,555	2,100	85,885	41,195	127,080
Modesto	81,203	73,000	120	3,000	3,400	6,400	13,841	------	1,504	11,347	15,810	8,951	13,140	------	1,140	1,519	e 58,946	4,554	63,500
Mootague	25,495	19,000	11,860	100	225	325	1,500	------	------	2,100	------	------	------	------	------	------	3,600	5,000	8,600
Naglee-Burk	2,873	2,300	849	35	------	35	1,217	------	------	252	312	------	------	------	97	------	1,968	138	2,006
Nevada	266,211	164,000	7,012	2,925	------	2,925	257	------	------	-------	230	------	7,089	123	9,113	------	16,812	--------	16,812
Newport Heights	1,503	1,300	None	------	1,537	1,537	-------	------	------	-------	------	------	------	25	------	725	750	--------	750
Newport Mesa	694	400	None	------	220	220	15	------	------	-------	185	------	------	------	------	------	200	--------	200
Oakdale	74,300	64,000	5,223	16,000	1,400	17,400	2,368	492	3,669	247	22,901	1,414	4,155	26	903	------	36,063	22,470	58,533
Orange Cove	12,597	11,000	None	249	------	249	-------	------	------	-------	40	1,969	889	2,085	------	------	4,983	7,500	12,483
Oroville-Wyandotte	23,862	21,000	4,947	449	74	523	-------	------	------	-------	------	------	1,276	824	------	------	2,100	--------	2,100
Palmdale	4,756	4,200	3,512	94	170	264	547	------	------	105	------	40	258	------	------	------	950	--------	950
Palo Verde	94,993	75,000	22,000	460	320	780	10,416	17,254	------	920	2,414	------	200	------	------	------	31,204	--------	31,204
Paradise	11,250	9,500	3,962	950	107	957	-------	------	------	-------	------	200	1,750	------	------	400	2,350	--------	2,350
Potter Valley	5,034	4,000	None	110	------	110	600	------	------	100	330	------	506	------	------	------	1,535	250	1,785
Princeton-Codora-Glenn	13,526	12,000	859	156	------	156	559	------	2,352	63	433	------	1,127	------	258	------	4,792	--------	4,792
Provident	22,805	12,000	21,183	17	------	17	35	------	5,172	-------	60	------	------	------	600	------	5,867	12,832	18,699
Ramona	660	590	None	------	220	220	-------	------	------	-------	20	------	------	58	------	122	200	--------	200
Richvale	19,020	16,000	119	103	50	153	-------	------	6,963	-------	216	------	------	------	------	------	7,179	--------	7,179
Riverdale	15,930	14,000	875	250	------	250	2,000	1,500	------	5,200	1,600	------	------	------	3,000	------	13,300	--------	13,300
San Dieguito	4,000	3,000	None	610	900	1,510	-------	------	------	-------	708	------	55	1,000	------	------	1,763	50	1,913
Santa Fe	10,106	6,990	2,509	330	460	790	-------	------	------	-------	600	------	160	2,325	------	------	3,085	300	3,385
San Ysidro	528	500	4	------	381	381	-------	------	------	-------	------	------	------	------	------	Dom.	0	--------	0
Scott Valley	5,131	4,500	None	26	------	26	1,500	------	------	1,500	200	------	------	------	------	------	3,200	--------	3,200
Serrano	1,497	1,200	None	140	------	140	-------	------	------	-------	------	------	------	1,316	------	------	1,316	--------	1,316
Shafter-Wasco	41,620	36,000	None	500	------	500	2,000	14,000	------	1,300	9,300	2,900	890	------	------	------	30,390	--------	30,390
South Fork	12,404	11,000	None	18	------	18	100	------	------	200	------	------	------	------	12,000	------	12,300	--------	12,300
South Montebello	983	710	-------	------	320	320	25	------	------	-------	225	------	------	180	------	107	537	--------	537
South San Joaquin	71,112	64,000	2,729	1,915	947	2,862	13,531	------	------	10,489	15,835	7,901	5,333	------	721	------	53,810	11,590	65,400
Stinson	10,950	9,000	9,696	1	1	2	50	800	------	2,100	300	------	------	------	------	------	3,250	--------	3,250
Stratford	12,946	12,000	None	102	------	102	-------	------	------	-------	------	------	------	------	------	------	--------	--------	No. Rept.
Table Mountain	1,955	1,700	941	19	------	19	65	------	300	-------	------	------	------	------	------	------	365	400	765
Terra Bella	12,285	11,000	6,931	400	35	435	-------	------	------	-------	65	------	242	1,965	------	------	2,272	5,020	7,292
Thermalito	3,162	2,700	1,102	266	150	416	-------	------	------	-------	171	94	397	368	40	------	1,060	--------	1,060
Tracy Clover	1,033	820	232	-----	85	85	175	------	------	111	68	------	------	------	33	------	397	351	738
Tranquillity	10,750	9,000	1,129	90	165	255	800	3,200	------	4,000	400	------	------	------	500	------	9,900	--------	9,900
Tulare	33,500	30,000	None	550	------	550	5,600	5,500	------	-------	2,300	1,462	2,967	------	------	171	18,000	--------	18,000
Tule	15,000	10,000	-------	80	------	80	-------	------	------	-------	------	------	------	------	------	------	-------	--------	No. Rept.
Turlock	191,650	162,000	553	6,130	2,200	9,330	38,206	1,614	563	32,347	39,995	10,944	12,106	------	7,092	------	142,756	--------	142,756
Vandalia	1,275	1,100	117	34	------	34	-------	------	------	-------	20	------	------	1,090	------	------	1,110	30	1,140
Vista	17,950	14,500	2,349	1,668	------	1,668	-------	------	------	-------	1,747	41	262	6,116	------	------	8,166	--------	8,166
Walnut	907	900	-------	77	------	77	-------	------	------	-------	------	------	------	906	------	------	906	--------	906
Waterford	14,110	11,400	2,325	267	102	369	911	------	320	-------	1,569	547	1,750	------	247	161	5,405	6,044	11,449
West Side	11,820	11,000	2,139	103	339	442	2,610	------	------	668	3,664	123	262	------	------	------	f 7,147	1,590	8,737
West Stanislaus	21,792	21,600	None	110	14	124	3,042	------	------	1,369	17,720	------	370	------	------	------	g 21,781	--------	21,781
Woodbridge	14,290	13,000	None	169	------	169	2,768	------	973	1,127	2,926	------	3,319	------	1,466	------	12,579	--------	12,579
Totals	3,469,994	2,889,900	352,177	75,415	37,529	112,944	408,262	178,274	51,612	293,291	497,747	191,715	140,236	52,687	120,217	209,914	1,844,325	200,143	2,034,473

(a) Santa Carbona reported 463 acres double cropped
(b) Bard reported 1429 acres double cropped
(c) Byron-Bethany reported 80 acres double cropped
(d) Imperial reported 303,444 acres double cropped
(e) Modesto reported 8,305 acres double cropped
(f) West Side reported 190 acres double cropped
(g) West Stanislaus reported 720 acres double cropped

TABLE III

SUMMARY OF ASSESSMENTS LEVIED, TAX CERTIFICATES SOLD, CASH RECEIPTS, AND CASH EXPENDITURES IN 1937

Name of District	Average Assessed Valuation Per Acre	Assessment 1936 - 1937				Assessment 1937 - 1938					Cash Receipts 1937					Total Cash Disbursements 1937
		Total Assessed Valuation	Rate per $100 of Valuation	Total Assessment Levied	Tax certificates sold, Including Penalties	Total Assessed Valuation	Rate per $100 Valuation: Bond Fund	Rate per $100 Valuation: General Fund	Rate per $100 Valuation: Total Rate	Total Assessment Levied	Assessments Redemptions Penalties	Water Tolls and Power Sales	Rentals Crop Share Misc.	Sale of District Land	Total Receipts	
Alpaugh	$ 50	$ 424,586	$ 2.50	$ 5,305	$ 219	$ 424,596	$----	$ 4.00	$ 4.00	$ 10,263	9,895	27,062	46,045	20,087	103,099	122,446
Alta	65	8,386,761	1.38	116,927	15,352	8,390,445	0.33	1.28	1.61	134,983	134,254	0	2,991	6,729	143,874	144,126
Anderson-Cottonwood	45	1,160,891	2.00	23,219	3,471	1,215,712	----	2.00	2.00	24,314	23,360	------	3,400	6,740	33,500	40,891
Antt-Carbona	150	2,074,259	2.70	56,005	1,680	2,139,457	----	2.70	2.70	57,738	84,954	69,664	8,795	9,474	172,787	180,923
Bard (part of Yuma Pro.)	100	585,700	0.20	1,171	None	585,700	----	0.20	0.20	1,171	2,479	------	46	0	2,525	1,191
Beaumont	90	358,670	3.80	13,629	2,510	345,660	1.80	2.00	3.90	13,134	15,380	33,334	13,158	1,995	53,967	69,133
Big Springs	100	238,821	0.97	2,322	528	238,921	0.77	0.06	0.83	1,990	3,114	7,011	96	0	10,211	10,572
Browns Valley	-----	387,200	------	0	None	387,200	----	----	----	0	0	5,326	19	0	5,345	5,265
Butte Valley	40	739,520	1.25A.	------	1,418	859,010	----	----	1.25 A.	3,873	1,947	1,882	7,121	3,448	14,298	12,738
Byron-Bethany	95	1,680,263	3.00	50,408	------	1,633,013	----	3.00	3.00	48,990	50,282	27,964	48,923	0	127,069	127,050
Camp Far West	85	349,625	6.47	22,635	None	349,625	5.94	0.53	6.47	22,635	22,736	0	13	0	22,749	21,994
Carmichael	90	240,444	10.50	25,247	5,976	249,559	----	11.75	11.75	29,323	29,797	5,040	2,781	3,419	41,026	41,436
Carpenter	800	964,631	1.90	18,328	1,099	960,488	1.90	-----	1.90	18,249	18,621	14,777	785	0	34,183	32,956
Citrus Heights	100	290,475	6.00	17,428	2,705	289,368	1.71	4.29	6.00	17,362	19,321	10,056	772	1,740	32,389	25,987
Compton-Delevan	75	---------	------	0	None	---------	----	-----	-----	0	0	90	17,431	0	17,521	17,465
Consolidated	100	9,295,915	1.00	92,959	6,412	9,322,203	----	1.00	1.00	93,222	103,522	3,335	6,375	0	113,232	107,857
Corcoran	100	5,049,737	2.00	100,292	13,013	4,950,243	----	1.40	1.40	68,759	133,564	54,309	14,497	4,418	206,789	240,901
Cordua	25	34,977	4.52	1,581	None	55,935	----	4.52	4.52	2,528	2,046	5,420	6,378	9,750	23,594	21,637
Deer Creek	100	175,540	1.87	3,283	------	175,540	1.78	----	1.79	3,118	3,879	2,233	503	0	6,615	6,454
East Contra Costa	175	3,450,482	2.65	91,397	2,579	3,358,892	2.35	0.80	3.15	105,694	100,697	72,529	29,001	0	202,227	237,219
El Camino	75	---------	2.00A	------	None	---------	----	----	2.00A.	12,000	11,461	6,919	2,515	373	21,268	22,496
El Dorado	47	1,953,905	0.80	15,631	4,132	1,960,119	0.40	0.40	0.80	15,681	17,487	49,048	4,308	0	70,943	79,915
El Nido	75	527,630	3.00	15,829	------	---------	----	----	-----	-------	-------	------	------	-----	------	No Report
Empire West Side	100	646,041	0.50	3,230	595	646,041	----	2.00	2.00	12,921	6,508	0	125	0	6,633	16,952
Exeter	-----	---------	----	0	-----	---------	----	----	----	0	------	------	-----	-----	------	-------
Fairoaks	90	337,903	2.60	8,785	4,409	337,903	----	2.60	2.60	8,785	13,955	12,844	2,231	3,473	32,503	47,873
Fallbrook	100	636,504	2.00	12,730	2,054	494,800	----	2.00	2.00	9,896	10,754	0	796	161	11,711	7,452
Fresno	75	17,808,330	1.00	178,083	16,182	18,076,255	----	1.00	1.00	180,762	194,419	676	10,528	1,285	206,908	209,630
Glenn-Colusa	40	2,764,442	1.80	56,672	12,222	2,432,070	0.09	1.71	1.80	43,777	65,644	152,760	12,598	85,793	316,795	253,762
Grenada	200	173,000	5.14	9,849	1,274	172,900	----	5.00	5.00	8,640	1,478	6,948	4,025	50	12,501	10,288
Hollister	86	2,750,240	----	0	None	2,215,845	----	0.25	0.25	5,529	5,057	0	0	0	5,057	4,743
Hot Spring Valley	20	177,500	3.00	5,325	193	176,668	2.00	1.00	3.00	5,205	4,820	0	0	0	4,820	5,319
Imperial	110	32,570,386	4.65	1,514,434	241,189	40,203,264	2.06	1.72	3.78	1,519,559	1,408,554	1,168,627	167,689	104,509	2,849,379	2,364,991
Island No. 3	48	194,467	0.25	486	None	194,467	----	0.25	0.25	486	573	0	0	0	573	632
Jacinto	60	620,497	2.10	13,030	847	692,236	0.53	1.57	2.10	14,537	17,104	5,237	2,118	4,270	28,729	32,967
James	50	967,440	1.74	16,790	70	6,511	2.80	----	2.80	182	693	54,048	62,712	0	117,453	163,273
Kings River Delta	-----	---------	----	------	0	---------	----	----	----	0	------	-------	------	------	-------	-------
La Canada	100	1,134,880	1.60	18,158	619	1,099,485	1.60	----	1.60	17,576	23,129	21,177	3,051	0	47,357	47,201
Laguna	45	1,292,265	----	------	596	1,291,825	----	1.25	1.25	16,148	20,031	0	2,039	1,910	23,980	29,952
Lakeland	100	---------	----	0	None	---------	----	----	----	0	4,399	0	6,073	0	10,471	3,739
Lakeside	290	90,521	2.50	2,263	33	92,983	----	2.50	2.50	2,332	2,433	3,314	216	252	6,215	6,319
La Mesa, Lemon Grove & S.V.	250	3,328,720	1.90	63,234	11,849	3,484,720	1.90	----	1.90	66,230	63,500	162,295	85,193	25,416	336,394	351,341
Linden	75	612,604	1.00	6,126	------	---------	----	----	----	--------	-------	-------	-------	------	-------	No Report
Lindmore	-----	---------	----	0	------	---------	----	----	----	0	0	0	1,342	0	1,342	1,226
Lindsay-Strathmore	165	1,648,700	8.00	131,896	3,242	1,654,939	----	6.00	6.00	99,296	136,582	157,914	11,320	14,370	320,196	384,110
Littlerock Creek	100	219,100	4.50	9,960	1,344	114,748	3.00	1.50	4.50	5,164	7,611	6,148	630	0	14,389	20,345
Madera	50	8,048,465	0.24	19,302	3,617	9,048,465	----	0.24	0.24	19,330	20,714	0	895	0	21,609	21,537
Maxwell	50	---------	----	0	None	---------	----	----	----	0	0	690	3,222	0	3,912	2,430
Merced	75	11,420,790	3.00	342,624	29,209	11,469,155	----	3.00	3.00	344,045	444,211	618,057	52,657	22,419	1,137,344	1,006,050
Modesto	75	7,394,560	2.76	204,085	9,757	7,411,800	1.30	1.30	2.60	192,707	206,762	672,305	111,421	------	990,488	1,032,115

TABLE III

SUMMARY OF ASSESSMENTS LEVIED, TAX CERTIFICATES SOLD, CASH RECEIPTS, AND CASH EXPENDITURES IN 1937 (CONTINUED)

Name of District	Average Assessed Valuation Per Acre	Assessment 1936-1937				Assessment 1937-1938					Cash Receipts 1937				Total Cash Disbursements 1937
		Total Assessed Valuation	Rate per $100 of Valuation	Total Assessment Levied	Tax Certificates sold Including Penalties	Total Assessed Valuation	Rate per $100 Valuation: Bond Fund	Rate per $100 Valuation: General Fund	Rate per $100 Valuation: Total Rate	Total Assessment Levied	Assessments Redemptions Penalties	Water Tolls and Power Sales	Rentals Crop Share Misc.	Sale of District Land	Total Receipts	
Montague	$ 40	$ 297,019	$ 0.33	$ 965	$ 619	$ 304,694	$----	$0.40	$0.40	$ 1,219	377	3,105	1,693	96	5,261	4,892
Naglee-Burk	100	211,343	6.50	11,624	792	201,666	----	6.50	6.50	13,102	12,620	0	2,369	0	14,989	17,570
Nevada	15	3,593,936	1.00	35,989	4,245	3,644,341	----	1.00	1.00	36,443	39,691	517,722	19,483	2,199	579,095	645,155
Newport Heights	600	1,146,160	1.00	11,462	1,735	1,145,860	----	0.95	0.95	10,886	12,949	9,740	629	0	23,317	29,582
Newport Mesa	600	421,580	1.85	7,798	-----	---------	----	----	----	------	------	-------	------	-----	-------	No Report
Oakdale	67	3,514,630	3.80	133,566	10,685	3,937,630	2.35	1.45	3.80	149,630	149,684	64,687	38,021	38,928	291,320	315,794
Orange Cove	50	---------	----	0	None	629,386	----	0.70	0.70	4,406	3,664	0	0	0	3,664	1,009
Oroville-Wyandotte	100	1,835,885	1.00	18,359	2,268	1,821,994	----	1.00	1.00	18,220	21,703	37,055	2,606	2,105	63,469	60,747
Palmdale	100	107,491	5.00	5,374	646	107,336	5.00	----	5.00	5,367	5,275	7,001	6,625	0	18,901	19,284
Palo Verde	50	2,942,240	1.75	51,484	3,574	3,115,593	----	2.00	2.00	62,352	53,273	95,315	19,197	45,311	213,096	193,797
Paradise	60	357,215	3.75	11,386	2,794	360,071	----	3.75	3.75	16,667	12,852	17,081	500	9,752	39,195	37,229
Potter Valley	62	256,831	5.50	14,126	1,237	256,790	3.59	1.91	5.50	12,005	7,846	5,403	20	0	13,269	18,858
Princeton-Codora-Glenn-	67	814,646	3.70	28,377	2,546	815,968	1.20	2.50	3.70	28,426	28,475	12,533	1,516	246	42,770	44,633
Provident	75	610,168	1.16	7,060	1,145	106,038	----	1.16	1.16	1,227	372	12,086	23,250	0	35,708	50,600
Ramona	110	81,910	8.00	6,553	1,223	82,020	----	8.00	8.00	6,562	6,150	6,365	1,417	240	14,672	14,713
Richvale	30	505,220	----	0	-----	505,220	----	----	----	0	1,019	42,649	1,744	0	45,422	43,068
Riverdale	50	705,250	1.20	8,463	396	700,954	----	1.60	1.60	11,215	11,507	0	787	0	12,294	13,039
San Joaquin	500	2,061,255	2.00	41,225	16,448	2,173,686	0.60	1.90	2.50	54,348	45,078	36,482	2,732	3,580	87,872	97,573
Santa Fe	185	1,365,950	4.50	61,468	10,766	1,723,200	1.44	3.76	5.20	89,606	73,512	37,492	11,805	1,296	124,105	136,452
San Isidro	210	115,490	1.50	1,732	68	116,210	1.50	----	1.50	1,743	2,128	7,177	296	194	9,795	10,050
Scott Valley	50	256,565	3.00	7,697	None	256,565	----	3.00	3.00	7,697	7,738	0	0	0	7,739	7,849
Serrano	1,000	1,317,877	1.00	13,179	248	1,317,877	1.00	----	1.00	13,179	13,935	9,003	611	0	23,549	23,270
Shafter-Wasco	-----	---------	----	0	None	---------	----	----	----	0	0	0	0	0	0	0
South Fork	41	502,680	1.90	5,027	170	502,855	1.50	1.85	3.35	16,846	14,992	0	15,267	0	30,159	51,247
South Montebello	800	699,189	1.70	11,885	935	699,879	----	1.70	1.70	11,896	11,948	9,467	1,106	0	22,521	18,799
South San Joaquin	100	4,463,545	5.40	349,031	15,669	6,447,465	4.00	1.40	5.40	348,163	355,339	65,297	8,732	-----	429,357	343,353
Stinson	25	30,703	14.00	4,298	------	231,672	9.00	2.00	10.00	23,167	90	4,932	10,118	-----	15,140	16,647
Stratford	-----	---------	-----	-------	------	---------	----	----	-----	-------	2,803	0	0	0	2,803	3,140
Table Mountain	125	---------	5.30	-------	6,608	---------	4.80	0.50	5.30	-------	9,878	4,244	2,433	0	15,555	18,135
Terra Bella	100	376,394	7.00	26,348	4,393	369,831	4.55	2.45	7.00	25,841	29,003	58,031	29,320	0	116,354	151,536
Thermalito	150	307,642	2.50	7,691	1,155	306,224	----	2.50	2.60	7,656	9,307	14,187	479	969	*24,940	26,520
Tracy-Clover	100	83,114	7.00	5,818	1,240	90,092	----	9.00	9.00	6,406	6,860	0	1,121	192	8,173	10,013
Tranquillity	50	---------	----	0	------	421,691	1.00	----	1.00	4,217	1,273	25,626	11,021	41,972	79,792	94,976
Tulare	40	1,362,571	0.70	9,538	923	1,523,365	----	1.50	1.50	22,850	15,823	18,952	20,702	0	55,377	52,217
Turlock	90	13,392,695	2.64	353,593	27,654	13,393,650	----	2.50	2.50	334,857	376,645	690,771	245,593	0	1,313,004	1,259,533
Vandalia	200	229,664	11.00	25,263	231	229,998	4.88	4.12	9.00	20,700	20,019	14,342	19,119	7,780	61,260	62,680
Vista	150	2,161,632	5.50	118,890	20,136	2,049,174	----	5.00	5.00	102,459	131,042	118,226	17,588	6,008	272,864	266,552
Walnut	1,000	906,580	0.50	4,533	332	906,600	----	0.50	0.50	4,533	4,647	3,253	3	0	7,903	9,793
Waterford	100	922,035	4.00	36,881	2,461	939,627	----	4.00	4.00	37,545	50,610	0	8,697	3,563	62,860	39,125
West Side	100	1,012,989	1.75	17,725	902	1,012,593	----	2.00	2.00	20,251	22,846	37,361	14,700	0	74,907	91,375
West Stanislaus	100	2,178,346	3.70	80,599	4,664	2,168,992	2.72	0.98	3.70	80,253	93,237	109,608	42,091	0	234,936	289,314
Woodbridge	95	1,221,334	2.24	27,362	2,606	1,221,334	2.25	----	2.25	27,362	27,976	29,643	14,436	0	71,005	70,439
Totals	-----	185,623,110	-----	4,351,696	551,915	194,022,572	----	----	----	4,897,426	5,130,101	5,563,070	1,354,574	495,400	12,543,150	12060,044

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS
JANUARY 1, 1938
(Totals for each district underscored)

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Regular Coupon Rate per cent	Status of Bond Issues January 1, 1939							Interest Bearing Warrants Unpaid 1-1-38	Status of Refinancing Plans		
					Face Value of Bonds Issued		Principal Amount Sold or Exchanged	Disposition of Bonds Sold			Bond Payments in Default				
					Original	Refunding		Refunded and Cancelled	Paid and Retired	Total Outstanding	Principal	Interest		Amount of R.F.C. Loan Disbursed	Basis of Refunding ¢ on $	New and Old Bonds Held by R.F.C.
Alpaugh	1	Jul.1,1916	Jul.1,1937-1946	6	$ 293,000	$ --------	$ 293,000	$ -----	$ 169,190	$114,810	$ None	$ None	$ None	$ 54,620	47.913	$ 114,910
Alta	1 Fund	Feb.4,1902	Jan.1,1923-1942	5	500,000	--------	492,000	-----	415,500	76,500	None	None	None	None	None	None
Anderson-Cottonwood	------	----------	-------------	---	1,255,000	--------	1,255,000	None	134,000	1,121,000	75,600	267,697	None	None	30.00	None
	1	Jan.1,1916	Jan.1,1937-1956	6	480,000											
	2	Jul.1,1917	Jul.1,1938-1957	6	575,000											
	3	Jul.1,1920	Jul.1,1925-1934	6	200,000											
Banta-Carbona	------	----------	-------------	---	1,164,000	--------	1,137,060	None	None	1137,060	None	367,210	56,976	None	None	None
	1	Aug.1,1924	Jul.1,1940-1964	6	705,000											
	2	Dec.1,1925	Jul.1,1941-1965	6	125,000											
	3	Jan.1,1927	Jan.1,1948-1967	6	334,000											
Baxter Creek	1	Jul.1,1921	Jan.1,1926-1943	6	511,000	--------	511,000	None	None	511,000	299,000	242,392	51,760	None	None	None
Beaumont	------	----------	-------------	---	300,000	--------	300,000	205,100	94,900	152,000	None	None	4,999	152,000	75.023	N 152,000
	1	Nov.1,1920	Jan.1,1926-1944	6	230,000											
	2	Jul.1,1926	Jul.1,1931-1950	6	70,000											
	1 Ref.	Jul.1,1935	Jul.1,1939-1968	4	----------	159,000	152,000									
Big Springs	1	Jul.1,1928	Jan.1,1930-1946	6	69,000	--------	67,000	58,000	9,000	26,000	None	None	None	26,000	42,372	N 26,000
	1 Ref.	Jul.1,1936	Jan.1,1940-1969	4		26,000										
Butte Valley	1	Sep.1,1923	Jan.1,1944-1963	6	594,000	--------	594,000	None	None	594,000	None	406,860	None	None	None	None
Byron-Bethany	------	----------	-------------	---	650,000	--------	650,000	545,000	81,000	569,000	------	--------	None	334,884	70.00	524,000
	1	Nov.1,1920	Jan.1,1924-1952	6	550,000											
	2	Sep.1,1923	Jul.1,1933-1955	6	100,000											
	1 Ref.	Jan.1,1934	Sinking Fund-1979	6	----------	569,000										
Camp Far West	1	Jul.1,1927	Jul.1,1937-1956	6	200,000	--------	179,000	None	10,000	169,000	None	None	None	None	None	None
Carmichael	------	----------	-------------	---	120,000	--------	120,000	79,600	41,600	52,000	None	None	None	52,000	75.00	N 82,000
	1	Jul.1,1916	Jul.1,1923-1942	6	90,000											
	2	Jan.1,1936	Jan.1,1933-1945	6	30,000											
	1 Ref.	Jul.1,1937	Jan.1,1941-1970	4	----------	83,000	52,000									
Carpenter	1	Jul.1,1929	Jul.1,1934-1953	6	200,000	--------	200,000	None	20,000	180,000	None	None	None	None	None	None
Citrus Heights	1	Aug.1,1921	Jul.1,1926-1945	6	262,000	--------	216,000	142,000	73,000	95,000	None	None	None	85,000	70.00	N 85,000
	1 Ref.	Jul.1,1937	Jan.1,1941-1970	4	----------	86,000	85,000									
Compton-Delevan	1	Dec.1,1921	Jan.1,1922-1936	6	575,000	--------	523,000	291,000	139,000	384,000	142,000	115,740	None	None	None	None
	1 Ref.	Jan.1,1927	Jan.1,1937-1950	6	----------	384,000	291,000									
Corcoran	1	Jan.1,1920	Jan.1,1931-1955	6	760,000	--------	760,000	None	27,000	733,000	83,000	175,380	None	426,292	75.00	649,000
Cordua	2 Fund	Sep.1,1934	Jul.1,1938-1967	4	102,725	--------	100,725	-------	1,725	*100,000	None	None	None	100,725	39.00	N 99,000
Deer Creek	1	Sep.1,1927	Jul.1,1929-1938	6	25,000	--------	25,000	None	22,500	2,500	None	None	None	None	None	None
East Contra Costa	------	----------	-------------	---	1,324,000	--------	1,301,000	1,067,000	143,000	1,153,000	None	None	None	None	None	None
Brentwood	1	Jan.1,1924	Jan.1,1935-1954	6	514,000											
Knightsen	1	Jul.1,1921	Jul.1,1937-1946	6	650,000											
Lone Tree	1	Mar.1,1922	Jan.1,1928-1947	6	160,000											
	1 Ref.	Jan.1,1934	Sinking Fund-1978	6	----------	1,153,000										

N Designates new refunding issues accepted by RFC for old bonds.
* Cordua has $1,000 of original issue outstanding in addition to $99,000 of refunding issue held by RFC.

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS - CONTINUED

JANUARY 1, 1938

(Totals for each district underscored)

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Regular Coupon Rate per cent	Status of Bond Issues January 1, 1938							Interest Bearing Warrants Unpaid 1-1-38	Status of Refinancing Plans		
					Face Value of Bonds Issued		Principal Amount Sold or Exchanged	Disposition of Bonds Sold			Bond Payments in Default			Amount of R.F.C. Loan Disbursed	Basis of Refunding ¢ on $	New and Old Bonds Held by R.F.C.
					Original	Refunding		Refunded and Cancelled	Paid and Retired	Total Outstanding	Principal	Interest				
El Camino	1	Nov.1,1926		----	$ 430,000	$ --------	$ 423,000	$ None	$ None	$423,000	$ 23,000	$ 209,000	$ None	$ None	None	$ None
	1st. Div.		Jan.1,1937-1956	6	275,000											
	2nd. Div.		Jan.1,1940-1952	6	28,000											
	3rd. Div.		Jan.1,1940-1956	6	127,000											
El Dorado	1	Mar.1,1927	Jan.1,1949-1967	6	1,130,000	---------	693,000	None	None	693,000	None	64,997	24,439	328,692	50.50	664,000
El Nido	1	Jan.1,1931	Jan.1,1934-1951	6	135,000	---------	120,000	None	None	120,000	19,000	None	None	None	None	None
Fairoaks	1	Oct.1,1918	Jul.1,1924-1943	6	200,000	---------	160,000	92,000	79,000	61,500	None	None	None	61,500	90.00	N 61,500
	1 Ref.	Sep.1,1937	Jul.1,1941-1970	4	---------	63,000	61,500									
Glenn-Colusa	1	Oct.1,1920	Jan.1,1922-1941	6	2,587,000	---------	2,404,150	285,000	1,155,696	1,248,454	656,404	202,940	26,602	660,943	67.Apr	1,208,354
	1 Ref.	Nov.1,1924	Jan.1,1935-1941	6	---------	300,000	285,000									
Grenada	1 Fund	Jul.1,1931	Jul.1,1939-1970	6	136,000	---------	136,000	None	None	136,000	None	18,360	None	None	None	None
Hot Spring Valley	1 Fund	Sep.1,1934	Jul.1,1939-1967	4	47,000	---------	43,000	--------	None	* 44,000	None	None	None	43,000	51.316	N 43,000
Imperial	------	----------	----------	----	18,218,000	14,250,000	16,019,500	13331,000	1,750,000	14,269,500	--------	950,000	379,266	None	------	None
	1	Jan.1,1915	Jan.1,1936-1955	5	3,500,000											
	2	Jul.1,1917	Jul.1,1939-1957	5	2,500,000											
	3	Oct.1,1919	Jul.1,1925-1934	5½	2,500,000											
	4	Jul.1,1922	Jul.1,1935-1936	6	7,500,000											
	Elec.5 Rev.	Jul.1,1937	Jan.1,1941-1956	2.77	700,000											
	Elec.6 Rev.	Jul.1,1937	Jan.1,1941-1967	4	1,619,000											
	1Ref.,1Div.	Feb.1,1933	Sinking Fund-1983	6	---------	6,000,000										
	1Ref.,2Div.	Feb.1,1933	Jul.1,1939-1942	5½	---------	750,000										
	1Ref.,3Div.	Feb.1,1933	Sinking Fund-1983	6	---------	7,500,000										
Jacinto	1	Dec.1,1920	Jan.1,1923-1942	6	239,000	---------	238,000	155,297	92,713	97,000	None	None	None	94,500	60.50	N 97,000
	1 Ref.	Mar.1,1935	Jul.1,1939-1968	4	---------	96,000	94,500	--------	7,500							
James	1	May15,1920	Jan.1,1928-1947	6	1,000,000	---------	1,000,000	None	5,000	995,000	545,000	433,010	60	236,236	25.00	965,000
La Canada	-----	----------	----------	----	328,000	---------	328,000	None	6,000	322,000	None	None	None	None	None	None
	1	Jul.1,1925	Jul.1,1936-1960	5	154,000											
	2	Jul.1,1928	Jul.1,1949-1969	5	174,000											
Lakeside	1	Feb.1,1925	Jan.1,1946-1965	6	35,000	---------	35,000	None	5,000	30,000	None	None	None	None	None	None
La Mesa, L.C.and S.V.	-----	----------	----------	-----	1,992,769	---------	1,336,769	--------	29,000	1,307,769	None	None	None	1,346,769	64,937	N1,907,768
	2-2nd Div.	May 1,1934	May 1,1937-1964	4	490,000		490,000		None	490,000						
	3-1st Fnd.	May 1,1934	May 1,1940-1972	4	1,347,768		1,346,768		29,000	1,317,768						
	4 Issue	Jul.1,1937	Jan.1,1942-1967	4	145,000		None									
Lindsay-Strathmore	-------	----------	----------	----	1,650,000	---------	1,650,000	None	223,000	1,427,000	329,500	376,087	None	745,000	59,979	1,242,500
	1	Jul.1,1916	Jul.1,1927-1946	6	1,400,000											
	2	Oct.1,1918	Oct.1,1929-1948	6	250,000											

* Hot Spring Valley has $1,000 of original issue outstanding in addition to 43,000 of refunding issue held by R.F.C.

N Designates new refunding issues held by R.F.C. for loans advanced.

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS - CONTINUED
JANUARY 1, 1939

(Totals for each district underscored)

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Regular Coupon Rate per cent	Status of Bond Issues January 1, 1939								Interest Bearing Warrants Unpaid 1-1-39	Status of Refinancing Plans		
					Face Value of Bonds Issued		Principal Amount Sold or Exchanged	Disposition of Bonds Sold			Bond Payments in Default			Amount of R.F.C. Loan Disbursed	Basis of Refunding ¢ on $	New and Old Bonds Held by R.F.C.
					Original	Refunding		Refunded and Cancelled	Paid and Retired	Total Out-standing	Principal	Interest				
Littlerock Creek -----	------	----------	----------	-----	$ 369,000	----------	$ 369,000	$ None	$ 10,000	$ 359,000	$ 35,000	--------	$ None	$ 99,492	29.432	$ 354,300
	3	Jul.1,1914	Jan.1,1934-1954	5	60,000											
	4	Jan.16,1920	Jan.1,1941-1960	6	200,000											
	5	May 1,1921	Jan.1,1925-1942	6	49,000											
	6	Jan.1,1925	Jan.1,1941-1960	6	60,000											
Maxwell ----------	1	Sep.1,1919	Jan.1,1922-1941	6	260,000	----------	260,000	None	26,000	*234,000	196,000	--------	44,190	None	None	None
Merced ----------	------	----------	----------	-----	16,250,000	----------	16,250,000	None	59,000	16,191,000	397,000	4,731,105	None	7,560,195	51.501	14,691,000
	1-1st Div	Jan.1,1922	Jan.1,1933-1950	6	3,120,000											
	1-2nd Div	Jan.1,1922	Jan.1,1951-1953	5½	1,900,000											
	1-3rd Div	Jan.1,1922	Jan.1,1954-1955	5½	1,320,000											
	1-4th Div	Jan.1,1922	Jan.1,1956-1962	6	5,760,000											
	2	May 1,1924	Jan.1,1937-1964	6	3,250,000											
	3	Apr.1,1926	Jan.1,1965-1966	5½	1,000,000											
Modesto ----------	------	----------	----------	-----	5,314,511	----------	5,014,511	None	1,860,309	3,254,202	None	None	None	None	None	None
	1 - Fund.	May 1,1902	Jan.1,1923-1942	5	1,056,511											
	2 - Fund.	Jan.5,1904	Jan.1,1925-1944	5	332,000											
	2	Jan.1,1903	Jan.1,1914-1923	6	19,000											
	3	Jul.1,1909	Jul.1,1930-1939	5	200,000											
	4	Jan.1,1911	Jan.1,1932-1941	5	50,000											
	5 - 6	Jul.1,1914	Jul.1,1935-1954	6	610,000											
	7 - 11	Jul.1,1920	Jul.1,1931-1950	6	2,000,000											
	12	Oct.1,1923	Jul.1,1934-1953	5	135,000											
	13	Jan.1,1924	Jul.1,1944-1953	5	500,000											
	14	Jan.1,1927	Jan.1,1942-1951	5	236,000											
	Sp.14 Rev.	Dec.1,1934	Aug.1,1940-1952	4	177,000											
Montague ----------	1	Jan.1,1926	Jan.1,1947-1966	6	1,395,000	----------	1,395,000	None	None	1,395,000	None	740,310	None	None	None	None
Naglee-Burk ---------	1	Oct.1,1921	Jul.1,1926-1940	6	200,000	----------	196,000	196,000	2,000	196,000	2,000	55,350	6,300	None	None	None
	1 Ref.	Jul.1,1927	Jul.1,1933-1967	6	----------	192,000	196,000									
Nevada ----------	1 Fund	Sep.15,1931	Sinking Fund-1981	4	9,100,000	----------	9,100,000	-------	None	9,100,000	None	None	10,639	None	None	None
Newport Heights -----	1	Jan.1,1920	Jan.1,1941-1960	6	160,000	----------	160,000	None	9,600	160,400	None	13,885	None	80,444	59.50	135,200
Newport Mesa --------	1	Jan.1,1919	Jul.1,1940-1959	6	50,000	----------	50,000	None	None	50,000	None		None	None	None	None
Oakdale ----------	------	----------	----------	-----	3,675,000	----------	3,675,000	2,191,200	382,000	3,276,000			None	1,152,500	50.00	2,303,300
	1	Jul.1,1910	Jul.1,1931-1940	5	1,600,000											
	2	Jan.1,1913	Jan.1,1934-1943	6	400,000											
	3	Jul.1,1915	Jul.1,1936-1955	6	400,000											
	4	Jan.1,1924	Jan.1,1925-1931	5½	175,000											
	5	Jan.21,1925	Jan.1,1927-1965	5	1,110,000											
	1 Ref.	Oct.1,1931	Jul.1,1935-1979	5	----------	2,320,000										
Oroville-Wyandotte ---	1	Jan.1,1923	Jan.1,1944-1963	6	2,000,000	----------	1,095,000	None	None	1,095,000	None	323,816	None	375,646	35.272	1,065,000

* Maxwell Bonds all acquired and held by pool of former land owners. District has taken title to all land.

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS - CONTINUED

JANUARY 1, 1939

(Totals for each district underscored)

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Regular Coupon Rate per cent	Status of Bond Issues January 1, 1939: Face Value of Bonds Issued		Principal Amount Sold or Exchanged	Disposition of Bonds Sold			Bond Payments in Default		Interest Bearing Warrants Unpaid 1-1-39	Status of Refinancing Plans		
					Original	Refunding		Refunded and Cancelled	Paid and Retired	Total Outstanding	Principal	Interest		Amount of R.F.C. Loan Disbursed	Basis of Refunding ¢ on $	New and Old Bonds Held by R.F.C.
Palmdale	1 Fund	Jul.1,1934	Jan.1,1947-1982	6	$ 222,500	$---	$ 222,500	$---	$ None	$ 222,500	$ None	$ None	$ 5,432	$ None	50.00	None
Palo-Verde					6,507,330		4,913,330	None	739,000	4,174,330	935,500	1,719,772	None	1,002,887	24.81	1141.83 5
Mutual Water Co.	1	Feb.1,1916	Feb.1,1922-1935	6	600,000		500,000			170,000						
Levee District	1	May 1,1918	May 1,1919-1958	6½	1,285,951		1,253,951			911,951						
Levee District	2	Nov.1,1922	Nov.1,1923-1962	6½	371,379		371,379			304,379						
Drainage District	1	Dec.1,1921	Jan.1,1933-1942	6	850,000		850,000			350,000						
Irrigation District	1 - 2	Sep.1,1925	Jul.1,1937-1955	6	3,500,000		1,938,000			1,938,000						
Paradise					490,000		490,000	None	14,000	476,000			None	234,168	52.521	447,000
	1	May 1,1917	May 1,1933-1957	6	350,000											
	2	Jul.1,1920	Jul.1,1925-1956	6	140,000											
Potter Valley	1	Jul.1,1928	Jul.1,1933-1952	6½	100,000		97,000	None	25,000	72,000	None	None	None	None	None	None
Princeton-Codora-Glenn	1	Jul.1,1919	Jul.1,1939-1958	6	175,000		175,000	None	29,500	146,500	None	None	None	None	None	None
Provident					1,190,000		1,190,000	None	233,000	957,000	246,000	353,250	None	None	None	None
	1	Aug.15,1918	Aug.15,1930-1949	6	1,000,000											
	2	Aug.2,1921	Jul.1,1922-1933	6	190,000											
Ramona	1	Jul.1,1926	Jul.1,1947-1966	6	91,000		91,000	None	None	91,000	None	None	None	None	None	None
Richvale					605,000		605,000	None	None	605,000	None	None	None	None	75.00	605,000
	1	1931	1937-1970	6	515,000											
	2	Jul.1,1937	Jan.1,1941-1970	4	90,000											
	1 Ref.	Jul.1,1937	Jul.1,1941-1970	4	---	* 388,000										
San Disquito	1	Apr.1,1923	Jan.1,1931-1950	6	400,000	---	400,000	356,000	39,000	** 196,500	None	None	None	191,630	52.29	N 191,500
	2 Ref.	Jan.1,1935	Jan.1,1941-1973	4	---	202,500	191,500									
Santa Fe	1	Nov.1,1923	Jul.1,1933-1952	6	700,000	---	700,000	682,000	18,000	393,500	None	None	11,836	393,500	52.361	N 393,600
	2 Ref.	Jul.1,1935	Jul.1,1940-1972	4	---	394,500	393,500									
San Isidro	1	Jan.1,1913	Jan.1,1934-1943	5	25,000	---	25,000	None	8,750	16,250	None	None	None	None	None	None
Scott Valley	2 Fund	Jan.1,1936	Jan.1,1937-1961	5	67,000	---	67,000	None	4,000	63,000	None	None	None	None	None	None
Serrano	1	Jul.1,1929	Jul.1,1934-1953	6	200,000	---	200,000	None	20,000	180,000	None	None	None	None	None	None
South Fork	1	Jul.1,1934	Jul.1,1938-1964	4	165,000	---	133,000	None	None	133,000	None	None	None	None	None	None
South Montebello	1	Jun.30,1923	Jan.1,1926-1945	6	125,000	---	125,000	None	75,000	50,000	None	None	None	None	None	None
South San Joaquin					5,985,000	4,791,250	5,985,000	4,515,550	178,750	5,806,250	196,200	900,656	None	3,422,342	68.469	4,998,400
	1	Jul.1,1910	Jul.1,1931-1940	5	1,875,000											
	2	Apr.18,1913	Apr.18,1934-1942	5	1,170,000											
	3	Jul.1,1913	Jul.1,1934-1943	5	790,000											
	4	Sep.1,1919	Sep.1,1940-1959	5½	500,000											
	5	Nov.6,1923	Jul.1,1944-1963	5½	550,000											
	6	Jun.21,1925	Jan.1,1927-1965	5	1,100,000											
	1 Ref.Div.1	Oct.1,1931	Jul.1,1936-1981	5	---	3,741,250										
	1 Ref.Div.2	Oct.1,1931	Jul.1,1936-1981	5½	---	1,050,000										

* Richvale First refunding issue of $388,000 will be exchanged for $515,000 old bonds held by R.F.C.

** San Disquito has $5000 of original issue outstanding in addition to $191,500 refunding bonds held by R.F.C.

N Designates new refunding issues held by R.F.C. for loans advanced.

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS - CONTINUED
JANUARY 1, 1939

TABLE IV

SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS - CONTINUED
JANUARY 1, 1939
(Totals for each district underscored)

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Regular Coupon Rate per cent	Status of Bond Issues January 1, 1938								Interest Bearing Warrants Unpaid 1-1-39	Status of Refinancing Plans		
					Face Value of Bonds Issued		Principal Amount Sold or Exchanged	Disposition of Bonds Sold			Bond Payments in Default			Amount of R.F.C. Loan Disbursed	Basis of Refunding ¢ on $	New and Old Bonds Held by R.F.C.
					Original	Refunding		Refunded and Cancelled	Paid and Retired	Total Outstanding	Principal	Interest				
Stinson	1	Apr.1,1923	Jan.1,1931-1950	6	$ 360,000	$ --------	$ 360,000	$ None	$ None	$ 360,000	$ 94,600	$ 97,354	$ 23,923	$ None	None	$ None
Table Mountain	---	---	---	---	187,000	--------	187,000	None	None	187,000	None	44,125	None	None	None	None
	1	Jul.1,1923	Jul.1,1944-1963	6	125,000											
	2	Mar.1,1927	Jan.1,1948-1967	6	62,000											
Terra Bella	---	---	---	---	1,000,000	--------	1,000,000	776,000	268,250	343,750	2,000	12,100	None	None	50.90	None
	1	Nov.1,1916	Nov.1,1927-1946	6	1,000,000	--------	1,000,000	*776,000	182,000	42,000						
	1 Ref.	Jul.1,1933	Sinking Fund-1979	4	---------	409,000	* 383,000	-------	86,250	301,750						
Thermalito	---	---	---	---	320,000	--------	320,000	None	None	320,000	33,000	90,060	4,687	116,058	37.425	308,000
	1	Mar.1,1923	Jan.1,1934-1953	6	270,000											
	2	May 1,1926	Jan.1,1947-1966	6	60,000											
Tracy-Clover	1	May 1,1923	Jan.1,1939-1963	6	52,170	--------	52,170	None	None	52,170	None	15,116	862	17,293	35.533	47,170
Tranquillity	1	Jan.1,1920	Jan.1,1924-1955	5½	260,000	-------	260,000	None	34,000	226,000	** 2,000	490	None	136,289	75.00	224,000
Tule	1	Jul.1,1921	Jan.1,1926-1943	6	806,000	-------	806,000	None	None	806,000	469,000	439,030	None	None	None	None
Turlock	---	---	---	---	7,870,000	-------	7,870,000	None	2,660,360	5,209,640	None	None	None	None	None	None
	1 Fund	Jan.1,1902	Jan.1,1922-1942	5	1,156,000											
	1	Jan.1,1905	Jan.1,1926-1935	5	200,000											
	2	Jul.1,1910	Jul.1,1931-1940	5	100,000											
	3	Jan.1,1911	Jan.1,1932-1941	5	1,206,000											
	4 - 5	Jul.1,1920	Jul.1,1936-1961	6	3,599,000											
	6	Jul.1,1920	Jul.1,1941-1960	5½	510,000											
	7	Jan.1,1924	Jan.1,1927-1936	5	500,000											
	8	Dec.31,1926	Jul.1,1932-1946	5	600,000											
Vandalia	1 Fund	Jul.1,1933	Sinking Fund-1963	5	172,200	--------	172,200	------	19,200	153,000	None	None	None	None	None	None
Vista	1	Jan.1,1925	Jan.1,1946-1965	6	1,700,000	-------	1,700,000	None	None	1,700,000	None	------	None	857,540	55.00	1,618,000
Waterford	---	---	---	---	670,000	-------	670,000	None	39,075	631,925	193,925	193,448	None	None	52.45	None
	1	Oct.1,1916	Oct.1,1927-1946	6	465,000											
	2	Jul.1,1919	Jul.1,1927-1946	5½	205,000											
West Side	---	---	---	---	595,000	--------	558,500	None	43,000	510,500	92,900	145,485	56,331	None	50.103	None
	1	Jan.1,1917	Jan.1,1939-1957	6	295,000											
	2	Jul.1,1919	Jul.1,1939-1958	6	100,000											
	3	Jan.1,1920	Jan.1,1930-1939	6	150,000											
	4	Feb.1,1929	Jan.1,1950-1969	6	50,000											
West Stanislaus	---	---	---	---	1,337,376	--------	1,296,000	1,140,000	39,000	1,257,000	None	None	41,500	None	None	None
	1	Jul.1,1927	Jul.1,1932-1957	6	1,216,376		1,175,000	1,140,000	15,000	20,000						
	2-1st Div.	Jul.1,1935	Jul.1,1936-1964	4	121,000		121,000		13,000	108,000						
	1 Ref.	Jul.1,1933	Jul.1,1936-1939	5½	---------	1,160,000	1,140,000		11,000	1,129,000						
Williams (Glenn-Colusa)	---	---	---	---	732,000	---------	585,000	332,000	70,000	562,000	51,000	318,390	41,597	None	None	None
	1	Jul.1,1921	Jan.1,1923-1937	6	600,000											
	2	Jan.1,1924	Jan.1,1959-1961	6	115,000											
	3	Jun.1,1924	Jan.1,1945-1961	6	17,000											
	Ref.	Jan.1,1924	Jan.1,1942-1959	6	---------	466,000										
Woodbridge	1	Mar.1,1928	Jan.1,1930-1954	6½	325,000	---------	325,000	None	75,000	250,000	None	None	237	None	None	None
Totals					108,219,590	27,462,250	101,836,414	26,393,737	11,727,617	89,259,509	5,119,529	14,062,315	1,295,440	20,385,924	------	39,293,137
Buena Vista W.S.D.	1	Jul.1,1929	Jul.1,1935-1968	6	942,731	---------	942,731	None	28,731	914,000	None	None	99,492	None	None	None

* Terra Bella is refunding the original bond issue on the basis of 60¢ on the dollar. $776,000 of the old issue have been turned in and there are now outstanding $42,000 original issue and $301,750 of the refunding issue.

** Tranquillity Bonds not presented for payment.

TABLE VI
DIRECTORY OF CALIFORNIA IRRIGATION DISTRICTS
JANUARY 1, 1939

Name of District	County	Estimated Population			District Officials			District Office Address
		Inside Cities and Towns	Outside Cities and Towns	Total	President	Secretary	Manager or Engineer	
Alpaugh	Tulare	-------	400	400	H. E. Sawyer	Mary. B. B. Vallance	Paul Caldwell	Box 67, Alpaugh
Alta	Tulare, Fresno, Kings	7,000	11,000	18,000	Walter Billingslea	E. Sibley	E. Sibley	298 North L Street, Dinuba
Anderson-Cottonwood	Shasta, Tehama	1,500	1,300	2,800	W. W. Treat	Carl F. Eaton	-------	Anderson
Banta-Carbona	San Joaquin	-------	600	600	F. D. Reyner	Elvera Draper	J. B. Knight	Box 299, Tracy
Bard (part of Yuma Project)	Imperial	100	1,400	1,500	J. M. Wagner	C. D. Haughtelin	F. E. Trask	Box 1, Bard
Baxter Creek	Lassen	-------	170	170	Alfred Luond	-------	-------	Susanville
Beaumont	Riverside	2,300	550	2,850	E. L. Cappe	Dorothy E. Benedict	U. S. Murphy	137 Fifth Street, Beaumont
Big Springs	Siskiyou	-------	125	125	Lloyd Fleisch	Roy E. Swigart	-------	Montague
Big Valley	Lassen and Modoc	-------	90	90	H. C. Jack	A. N. McKenzie	-------	Bieber
Browns Valley	Yuba	150	900	1,050	B. J. Cutler	Ray C. Burris	Harry Kirmond	Browns Valley
Butte Valley	Siskiyou	350	100	450	H. L. Nelson	M. A. Gilmer	M. A. Gilmer	Macdoel
Byron Bethany	Contra Costa, San J., Ala.	300	1,200	1,500	Geo. K. Anderson	G. A. Howard	-------	Byron
Camp Far West	Placer, Yuba	-------	125	125	N. L. Duret	R. Anderson	M. C. Polk	Wheatland
Carmichael	Sacramento	-------	1,500	1,500	E. M. Linch	Roy W. Sullivan	L. Williamson	Rt. 5, Box 1427, Sacramento
Carpenter	Orange	900	150	1,050	L. W. Evans	D. S. Smiley	Porter A. Price	Rt. 1, Box 393, Orange
Citrus Heights	Sacramento, Placer	-------	1,200	1,200	J. A. Gray	Floyd J. Locher	R. A. Porch	Rt. 1, Box 161, Roseville
Compton-Dalevan	Colusa	-------	26	26	W. C. Baber	Elmer Laine	-------	Maxwell
Consolidated	Fresno, Tulare, Kings	9,500	18,000	27,500	L. C. Darling	A. H. Stedman	I. H. Teilman	Selma
Corcoran	Kings	-------	1,500	1,500	J. M. Hansen	D. I. Drown	H. H. Holley	Corcoran
Cordua	Yuba	-------	55	55	C. E. Kibbe	Jeannette Frank	Harry Kirmond	Memorial Auditorium Bldg., Marysville
Deer Creek	Tehama	-------	60	60	Charles Dicus	Betty Jones	-------	304 Broadway, Chico
East Contra Costa	Contra Costa	600	600	1,200	Arthur H. Honegger	Margaret Wedgwood	Gerald H. Jones	Brentwood
El Camino	Tehama	-------	606	606	C. Grootveld	Roy Pyle	Roy Pyle	Gerber
El Dorado	El Dorado	3,000	1,500	4,500	W. A. Hantz	F. N. Hosking	F. N. Hosking	Box 393, Placerville
El Nido	Merced	-------	375	375	Geo. T. Mc Farland	A. L. Cowell	G. E. Winton	El Nido
Empire West Side	Kings	-------	45	45	J. R. Newton	Josephine Hoey	A. J. Nielsen	Stratford
Exeter	Tulare	3,000	800	3,800	Howard H. Chandler	Harry T. Britten	-------	101 West Pine Street, Exeter
Fairoaks	Sacramento	600	1,200	1,800	E. C. Phoenix	Guy L. Camden	E. E. Fulton	Fair Oaks
Fallbrook	San Diego	-------	1,342	1,342	John T. Owens	Mildred H. Denver	-------	Fallbrook
Fresno	Fresno	-------	50,000	50,000	Philip A. Gordon	Jewel War	A. J. Gerner	1001 - 1009 Helm Bldg., Fresno
Glenn Colusa	Glenn, Colusa	-------	1,500	1,500	S. S. Havener	H. R. Allard	C. R. Renwick	Willows
Grenada	Siskiyou	100	200	300	C. J. Strong	G. Inabnit	O. Inabnit	Grenada
Hollister	San Benito	3,500	5,000	8,500	H. C. Maclachlin	Thomas E. O'Donnell	Joseph W. Gross	Hollister
Hot Spring Valley	Modoc	-------	250	250	S. B. Kelley	A. K. Wylie	-------	Alturas
Imperial	Imperial	35,000	33,000	68,000	Evan T. Hewes	W. W. Goodson	M. J. Dowd	El Centro
Island No. 3	Kings	-------	300	300	J. B. Roberts	Nellie Kaiser	-------	Rt. 2, Box 350, Kingsburg
Jacinto	Glenn	-------	354	354	W. W. Koehler	Roscoe Caldwell	Roscoe Caldwell	Glenn
James	Fresno	-------	250	250	G. R. Chaney	N. D. Ingham	N. D. Ingham	San Joaquin
Kings River Delta	Kings	-------	17	17	George A. Smith, Jr.	George Thyarks	-------	Stratford
La Canada	Los Angeles	1,200	------	1,200	D. W. Green	F. E. Slutman	W. N. Carpenter	Box 37, La Canada
Laguna	Fresno, Kings	-------	3,000	3,000	J. T. Eerey	Bessie L. Scutt	A. J. Nielsen	Rt. 1, Box 197, Laton
Lakeland	Kings	-------	15	15	H. F. Libby	H. S. Hurlbut	H. F. Libby	Box 907, Corcoran
Lakeside	San Diego	250	------	250	B. J. Conrad	H. P. Schiller	H. P. Schiller	Lakeside
La Mesa, Lemon Grove, and S. V.	San Diego	4,500	4,500	9,000	F. R. Beatty	Ruth C. Drew	C. Harritt	4769 Spring Street, La Mesa
Lemoore	Kings	-------	1,500	1,500	W. S. Winger	-------	-------	Lemoore
Linden	San Joaquin	150	500	650	Ralph G. Houston	A. L. Cowell	-------	308 Belding Bldg., Stockton
Lindmore	Tulare	-------	2,000	2,000	J. S. Schutt	K. R. Clifford	-------	R. D. 2, Box 537, Strathmore
Lindsay-Strathmore	Tulare	40	1,500	1,540	Ernest L. Daniels	H. R. Huebert	George W. Traugor	Box 625, Lindsay
Littlerock Creek	Los Angeles	-------	250	250	Vernon A. Carr	T. C. Curtis	-------	Littlerock
Lucerne	Kings	-------	1,200	1,200	W. L. Haag	S. E. Railsback	-------	Hanford

TABLE VI

DIRECTORY OF CALIFORNIA IRRIGATION DISTRICTS (Continued)

JANUARY 1, 1939

TABLE VI

DIRECTORY OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
JANUARY 1, 1938

Name of District	County	Estimated Population			District Officials			District Office Address
		Inside Cities and Towns	Outside Cities and Towns	Total	President	Secretary	Manager or Engineer	
Madera	Madera	7,000	8,000	15,000	J. A. Secara	Harry Barnes	Harry Barnes	120 South D Street, Madera
Maxwell	Colusa	------	12	12	Joe Garibaldi	Thos. J. Hateley	----------	1714-10th Street, Sacramento
Merced	Merced	11,000	10,000	21,000	D. K. Barnell	H. P. Sargent	L. W. Reese	Box 759, Merced
Modesto	Stanislaus	19,000	6,500	25,500	Milton L. Kidd	C. S. Abbott	N. M. Cecil	923 Eleventh Street, Modesto
Mojave River	San Bernardino	------	100	100	T. J. Thomas	----------	----------	Victorville
Montague	Siskiyou	450	150	600	G. W. Dwinnell	Roy E. Swigart	----------	Montague
Naglee-Burk	San Joaquin	------	150	150	V. J. Reeve	George Wadsworth	V. J. Reeve	Roberts Bldg., Tracy
Nevada	Nevada, Placer	------	5,000	5,000	Thos. McCahy	B. W. Baldwin	William Durbrow	144 S. Auburn Street, Grass Valley
Newport Heights	Orange	1,900	------	1,900	Geo. A. Waterman	H. B. Woodrough	----------	Costa Mesa
Newport Mesa	Orange	350	------	350	Chas. W. TeWinkle	D. J. Dodge	----------	Box 305, Costa Mesa
Oakdale	Stanislaus, San Joaquin	3,000	4,500	7,500	A. N. Quayle	C. W. Quialey	R. E. Hartley	Oakdale
Orange Cove	Fresno, Tulare	------	650	650	Geo. Zaninovich	A. L. Schoepf	----------	Orange Cove
Oroville-Wyandotte	Butte	400	450	850	Carleton Gray	Bernice S. Pratt	H. C. Tyler	Box 308, Oroville
Palmdale	Los Angeles	675	225	900	E. P. Moulton	H. P. Schoeller	H. P. Schoeller	Palmdale
Palo Verde	Riverside	2,200	3,300	5,500	Robert A. Grant	W. H. Fisher	C. P. Mahoney	Box 38, Blythe
Paradise	Butte	500	3,000	3,500	L. P. Fisher	J. B. Thompson	J. B. Thompson	Paradise
Potter Valley	Mendocino	100	400	500	J. E. March	L. S. Clark	----------	Potter Valley
Princeton-Codora-Glenn	Colusa, Glenn	250	750	1,000	A. W. Linville	W. G. Poage	R. N. Argo	Princeton
Provident	Colusa, Glenn	------	150	150	Charles Clark	Blanche Covert	T. E. Balch	Willows
Ramona	San Diego	900	------	900	Clara K. Graham	Ruby Bargar	John C. Bargar	Ramona
Red Rock Creek	Lassen	------	15	15	John K. Eneboe	----------	----------	Susanville
Richvale	Butte	150	100	250	Sam Lofgren	Alvin L. Harry	Alvin L. Harry	Richvale
Riverdale	Fresno	------	2,500	2,500	L. P. Adams	Tina Z. Cushman	V. L. Aitken	Riverdale
San Dieguito	San Diego	800	1,600	2,400	L. P. Mc Chesney	Herbert Nunn	Herbert Nunn	Encinitas
Santa Fe	San Diego	560	250	810	A. W. Gilbert	D. M. Bakewell	D. M. Bakewell	Rancho Santa Fe
San Ysidro	San Diego	1,500	------	1,500	L. McKelvey	L. Judd	----------	San Ysidro
Scott Valley	Siskiyou	------	300	300	C. F. Bryan	W. D. Mathews	----------	Fort Jones
Serrano	Orange	------	700	700	Willard Smith	F. H. Collins	----------	R.D. No. 1, Box 8, Orange
Shafter-Wasco	Kern	4,000	6,000	10,000	Chas. Westenberg	Roland Curran	I. H. Althouse	Box 15, Bakersfield
South Fork	Modoc	------	60	60	D. E. Van Loan	C. S. Baldwin	----------	Alturas
South Montebello	Los Angeles	950	------	950	James P. Dilyea	Mabel E. Kennedy	W. S. Duncan	1100 Mines Ave., Montebello
South San Joaquin	San Joaquin	4,000	10,000	14,000	Claus Popp	S. L. Steele	C. J. Campbell	Manteca
Stinson	Fresno	10	25	35	Wm. H. Noble	H. B. Stone	W. F. Bryant	Burrell, Fresno County
Stratford	Kings	355	100	455	D. C. Jones	June Martin	----------	Stratford
Table Mountain	Butte	------	10	10	Ralph Christensen	Katherine Breese	C. C. Breese	Oroville
Terra Bella	Tulare	200	300	500	John A. Rowe	E. H. Robinson	I. H. Althouse	Box 125, Terra Bella
Thermalito	Butte	------	1,300	1,300	M. Hodgson	W. B. Taylor	W. B. Taylor	Rt. 1, Oroville
Tracy Clover	San Joaquin	------	170	170	C. P. Fusco	George Wadsworth	----------	Roberts Bldg., Tracy
Tranquillity	Fresno	200	400	600	F. E. Miller	Iva Johnson	A. Segel	Tranquillity
Tulare	Tulare	------	3,500	3,500	E. A. Hasseltine	George A. Moran	L. E. Robertson	Seebe Bldg., Tulare
Tule	Lassen	------	150	150	F. C. Farwell	----------	----------	Susanville
Turlock	Stanislaus, Merced	7,000	18,000	25,000	E. O. McCombe	J. F. McCoy	B. V. Maikle	117 W. Main Street, Turlock
Vandalia	Tulare	------	150	150	W. D. Emery	H. C. Pagram	I. H. Althouse	Box 1026, Porterville
Vista	San Diego	720	2,907	3,627	J. W. Rose	Chas. H. Mull	Chas. H. Mull	Vista
Walnut	Los Angeles	------	300	300	F. C. Collins	E. D. Crouch	----------	Rivera
Waterford	Stanislaus	375	900	1,275	A. E. Ketcham	J. E. Browder	Wm. Lehmkuhl	Box 187, Waterford
West Side	San Joaquin	492	1,089	1,581	Bert B. Banta	Wyley R. Hansen	W. F. Woolley	Roberts Bldg., Tracy
West Stanislaus	Stanislaus, Merced	100	300	400	W. W. Cox	Elbridge Smith	W. F. Woolley	Westley
Woodbridge	San Joaquin	------	200	200	E. J. Shinn	W. E. Vandiveer	Hallet P. Brown	Rt. 2, Box 67, Lodi
Totals		143,177	246,908	390,085				
DIRECTORY CALIFORNIA WATER STORAGE DISTRICTS								
Buena Vista Water Storage	Kern	270	2,600	2,870	J. Leroy Rickel, Jr.	J. E. Woolley	Geo. K. Parker	Buttonwillow
Tulare Lake Basin Water Storage	Kings	------	------	------	Harry Lee Martin	Dan Hadsell	Roy L. May	Hanford
North Kern Water Storage	Kern	------	------	------	Hugh S. Allen	G. L. Henderson	G. L. Henderson	1712-19th Street, Bakersfield

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